



## SAFETY DATA SHEET

**Product Name:** Acetyl Pyrazine 5% Solution VG

**Product Code:** AC - 17475

**Specific Gravity:** 1.236

**Weight Per Gallon:** 10.30

**Ingredients:** Glycerine 99.5% USP

**Physical State:** Liquid

**Odor:** Characteristic Popcorn

**Diacetyl:** Free

**Usage %:** .5% - 2%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Almond Flavor

**Product Code:** AL - 07930

**Specific Gravity:** 0.982

**Weight Per Gallon:** 8.21

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Almond Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 77 Degrees F (25 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Amaretto Flavor

**Product Code:** AM - 12874

**Specific Gravity:** 1.018

**Weight Per Gallon:** 8.50

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Amaretto

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 110 Degrees F (43 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Apple (Granny Smith) Flavor  
**Product Code:** AP - 12006  
**Specific Gravity:** 1.023  
**Weight Per Gallon:** 8.41  
**Ingredients:** Propylene Glycol USP, H2O  
**Physical State:** Liquid  
**Odor:** Apple Like  
**Diacetyl:** Free  
**Usage %:** 5% - 7%  
**Flash Point:** 180 Degrees F (82 Degrees C)  
**Solubility in water (g/L):** Water Soluble  
**UN Number:** 1197  
**Packaging Group:** III  
**UN Proper Shipping Name:** Extracts, Flavoring, Liquid  
**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Apple (Red) Flavor

**Product Code:** AP - 07888

**Specific Gravity:** 1.011

**Weight Per Gallon:** 8.50

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Apple Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 185 Degrees F (85 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Apple Double Flavor

**Product Code:** AD - 19894

**Specific Gravity:** 1.017

**Weight Per Gallon:** 8.46

**Ingredients:** Propylene Glycol USP, H<sub>2</sub>O, Kosher OU

**Physical State:** Liquid

**Odor:** Apple Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 183 Degrees F (84 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Bacon Flavor

**Product Code:** BA - 08987

**Specific Gravity:** 1.046

**Weight Per Gallon:** 8.75

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Bacon

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Banana Split Flavor

**Product Code:** BA - 07316

**Specific Gravity:** 1.010

**Weight Per Gallon:** 8.40

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Banana Split

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 187 Degrees F (86 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Artificial Blueberry (Candy) Flavor

**Product Code:** BL - 16669

**Specific Gravity:** 1.042

**Weight Per Gallon:** 8.61

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Characteristic Blueberry

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Brown Sugar Flavor

**Product Code:** BR - 13336

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.62

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Brown Sugar

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Bubble-Bubble Pink Gum Flavor

**Product Code:** BG - 06647

**Specific Gravity:** 1.025

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Bubble Gum

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Burnt Sugar Flavor

**Product Code:** SU - 17162

**Specific Gravity:** 1.037

**Weight Per Gallon:** 8.17

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Brown Sugar Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Caramel Cream Flavor

**Product Code:** CA - 12636

**Specific Gravity:** 1.055

**Weight Per Gallon:** 8.77

**Ingredients:** Propylene Glycol USP Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Caramel Cream

**Diacetyl:** Free

**Usage %:** 7% - 10%

**Flash Point:** 120 Degrees F (49 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Caramel Flavor Oil

**Product Code:** CA - 12593

**Specific Gravity:** 0.925

**Weight Per Gallon:** 7.70

**Ingredients:** Soybean Oil

**Physical State:** Liquid

**Odor:** Caramel Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Coconut Flavor

**Product Code:** CO - 05809

**Specific Gravity:** 1.028

**Weight Per Gallon:** 8.64

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Coconut Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 194 Degrees F (90 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Cookie Dough Flavor

**Product Code:** CO - 10037

**Specific Gravity:** 1.049

**Weight Per Gallon:** 8.50

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Cookie Dough Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 158 Degrees F (70 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## **Toxicology**

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## **First Aid Measures**

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Artificial Cranberry Flavor

**Product Code:** CR - 06275

**Specific Gravity:** 0.988

**Weight Per Gallon:** 8.42

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol, Kosher OU

**Physical State:** Liquid

**Odor:** Cranberry Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 100 Degrees F (38 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Cream - OOO Blend II Flavor

**Product Code:** CR - 13332

**Specific Gravity:** 1.032

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Cream Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Dulce de Leche Flavor

**Product Code:** DU - 11813

**Specific Gravity:** 1.012

**Weight Per Gallon:** 8.50

**Ingredients:** Propylene Glycol USP, Diacetyl Replacer OS, Art (#23.28916)

**Physical State:** Liquid

**Odor:** Characteristic Dulce de Leche

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 90 Degrees F (32 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Ethyl Maltol PG Flavor

**Product Code:** CC - 06760

**Specific Gravity:** 1.043

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Cotton Candy

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Grape (Punch) Flavor

**Product Code:** GR - 07526

**Specific Gravity:** 1.026

**Weight Per Gallon:** 8.52

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Grape Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 167 Degrees F (75 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## **Toxicology**

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## **First Aid Measures**

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Happy Rancher (Apple) Flavor

**Product Code:** AP - 17132

**Specific Gravity:** 1.000

**Weight Per Gallon:** 8.33

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Apple Happy Rancher

**Diacetyl:** Free

**Usage %:** 2% - 4%

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Happy Rancher (Cherry) Flavor

**Product Code:** CH - 17131

**Specific Gravity:** 1.026

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Cherry Happy Rancher

**Diacetyl:** Free

**Usage %:** 2% - 4%

**Flash Point:** 130 Degrees F (54 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Happy Rancher (Grape) Flavor

**Product Code:** GR - 17130

**Specific Gravity:** 1.035

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Happy Rancher Grape Like

**Diacetyl:** Free

**Usage %:** 2% - 4%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Artificial Happy Rancher (Grape) Flavor

**Product Code:** GR - 17130

**Specific Gravity:** 1.035

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Happy Rancher Grape Like

**Diacetyl:** Free

**Usage %:** 2% - 4%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## **Toxicology**

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## **First Aid Measures**

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Happy Rancher (Grape) Flavor

**Product Code:** GR - 17130

**Specific Gravity:** 1.035

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Happy Rancher Grape Like

**Diacetyl:** Free

**Usage %:** 2% - 4%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Happy Taffy (Apple) Flavor

**Product Code:** AP - 17128

**Specific Gravity:** 0.996

**Weight Per Gallon:** 8.33

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Apple

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Happy Taffy (Banana) Flavor

**Product Code:** BA - 17126

**Specific Gravity:** 1.008

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Banana

**Diacetyl:** Free

**Usage %:** 2% - 4%

**Flash Point:** 191 Degrees F (88 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Happy Taffy (Cherry) Flavor

**Product Code:** CH - 17127

**Specific Gravity:** 1.017

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Cherry Happy Taffy

**Diacetyl:** Free

**Usage %:** 2% - 4%

**Flash Point:** 140 Degrees F (60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Horchata Flavor

**Product Code:** HO - 12518

**Specific Gravity:** 1.012

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Horchata Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 130 Degrees F (54 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Iced Tea Flavor

**Product Code:** TE - 08323

**Specific Gravity:** 1.034

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Iced Tea

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 81 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Irish Cream Flavor

**Product Code:** IC - 11978

**Specific Gravity:** 1.018

**Weight Per Gallon:** 8.53

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Irish Cream Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Artificial Maraschino Cherry Flavor

**Product Code:** CH - 07909

**Specific Gravity:** 1.031

**Weight Per Gallon:** 8.59

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Characteristic Maraschino Cherry

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 100 Degrees F (38 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Marshmallow Vanilla Flavor

**Product Code:** VA - 10622

**Specific Gravity:** 1.055

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Characteristic Vanilla Marshmallow

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Milk Chocolate Candy Bar Flavor

**Product Code:** CT - 06336

**Specific Gravity:** 1.028

**Weight Per Gallon:** 8.40

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Milk Chocolate Candy Bar Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 150 Degrees F (66 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Peach (Fresh) Flavor

**Product Code:** PH - 10520

**Specific Gravity:** 1.008

**Weight Per Gallon:** 8.40

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Peach Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 140 Degrees F (60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Plum Flavor

**Product Code:** PL - 06781

**Specific Gravity:** 1.000

**Weight Per Gallon:** 8.64

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Plum Like

**Diacetyl:** Free

**Usage %:** 2% - 4%

**Flash Point:** 140 Degrees F (60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Raspberry (Candy) Flavor

**Product Code:** RA - 09697

**Specific Gravity:** 1.032

**Weight Per Gallon:** 8.62

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Raspberry Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Red Wine Flavor

**Product Code:** WI - 06720

**Specific Gravity:** 1.025

**Weight Per Gallon:** 8.55

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Red Wine Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Root Beer Flavor

**Product Code:** RB - 15672

**Specific Gravity:** 1.036

**Weight Per Gallon:** 8.62

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Root Beer Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Artificial Sour Blizzard Flavor

**Product Code:** WI - 17634

**Specific Gravity:** 1.064

**Weight Per Gallon:** 8.89

**Ingredients:** Propylene Glycol USP, H2O

**Physical State:** Liquid

**Odor:** Sour Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Strawberry (Fruit) Flavor

**Product Code:** ST - 08282

**Specific Gravity:** 1.028

**Weight Per Gallon:** 8.63

**Ingredients:** Propylene Glycol USP, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Strawberry Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Strawnilla Flavor

**Product Code:** ST - 06446

**Specific Gravity:** 1.033

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Strawberry Vanilla Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 150 Degrees F (66 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Sweet Ice Cream Flavor

**Product Code:** IC - 10128

**Specific Gravity:** 0.925

**Weight Per Gallon:** 7.68

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Ice Cream Taffy

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 81 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## **Toxicology**

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## **First Aid Measures**

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Sweetener Flavor

**Product Code:** SW - 08739

**Specific Gravity:** 1.049

**Weight Per Gallon:** 8.56

**Ingredients:** Propylene Glycol USP, H<sub>2</sub>O, Lactic Acid, Kosher OU

**Physical State:** Liquid

**Odor:** Sweet

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Taro (VG) Flavor

**Product Code:** TA - 17502

**Specific Gravity:** 1.255

**Weight Per Gallon:** 10.20

**Ingredients:** Glycerine

**Physical State:** Liquid

**Odor:** Root Vegetable Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Vanilla (French) Flavor

**Product Code:** VA - 06765

**Specific Gravity:** 1.034

**Weight Per Gallon:** 8.79

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** French Vanilla Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Vanilla Butternut Flavor

**Product Code:** VA - 17008

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Vanilla Butternut Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Artificial Vanilla Flavor

**Product Code:** VA - 08181

**Specific Gravity:** 1.033

**Weight Per Gallon:** 8.62

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Vanilla Like

**Diacetyl:** Free

**Usage %:** 4% - 8%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Vanilla Ice Cream Shake Flavor

**Product Code:** VA - 05680

**Specific Gravity:** 1.033

**Weight Per Gallon:** 8.70

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Vanilla Ice Cream Shake Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Vanilla Pudding Flavor

**Product Code:** VA - 11652

**Specific Gravity:** 0.985

**Weight Per Gallon:** 8.29

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Vanilla Pudding Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 120 Degrees F (49 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial White Chocolate Macadamia Nut Flavor

**Product Code:** CT - 09527

**Specific Gravity:** 1.052

**Weight Per Gallon:** 8.80

**Ingredients:** Propylene Glycol USP, Lactic Acid

**Physical State:** Liquid

**Odor:** White Chocolate Macadamia Nut Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Artificial Wintergreen Candy Flavor

**Product Code:** WI - 10444

**Specific Gravity:** 1.026

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Wintergreen Candy Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 120 Degrees F (49 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Glycerine C.P. 99% W.W.

**Product Code:** RM - G0120

**Specific Gravity:** 1.261

**Weight Per Gallon:** 10.5

**Ingredients:** Glycerine

**Physical State:** Liquid

**Odor:** Characteristic Vegetable Glycerine

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Milk Evaporated Flavor

**Product Code:** MI - 16262

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.62

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Milk Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natrual & Artificial Vanilla Bean Ice Cream

**Product Code:** VA - 17724

**Specific Gravity:** 1.008

**Weight Per Gallon:** 8.30

**Ingredients:** Propylene Glycol, Ehtyl Alcohol, Vanillin USP

**Physical State:** Liquid

**Odor:** Vanilla Bean Ice Cream Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 130 Degrees F (54 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Boysenberry Flavor

**Product Code:** BY - 15801

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.53

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Boysenberry Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial 50/50 Cherry Ice Cream Bar Flavor

**Product Code:** CH - 23746

**Specific Gravity:** 1.0362

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Cherry Ice Cream Bar

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial 50/50 Lime Ice Cream Bar Flavor

**Product Code:** LI - 22045

**Specific Gravity:** 0.990

**Weight Per Gallon:** 8.27

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Lime Ice Cream Bar

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 81 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial 50/50 Orange Ice Cream Bar Flavor

**Product Code:** OR - 30422

**Specific Gravity:** 0.995

**Weight Per Gallon:** 8.33

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Orange Ice Cream Bar

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## **Toxicology**

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## **First Aid Measures**

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial 50/50 Raspberry Ice Cream Bar Flavor

**Product Code:** RA - 22009.1

**Specific Gravity:** 1.091

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic Raspberry Ice Cream Bar

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial 50/50 Strawberry Ice Cream Bar Flavor

**Product Code:** ST - 22659.1

**Specific Gravity:** 0.999

**Weight Per Gallon:** 8.35

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Characteristic Strawberry Ice Cream Bar

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 82 Degrees F (28 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Apple (Candy) Flavor

**Product Code:** AP - 14156

**Specific Gravity:** 1.051

**Weight Per Gallon:** 8.75

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Candy Apple Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Apple (Fuji) Flavor

**Product Code:** AP - 11229

**Specific Gravity:** 1.043

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP, H<sub>2</sub>O, Lactic Acid

**Physical State:** Liquid

**Odor:** Apple Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Apple (Green Caramel) Flavor

**Product Code:** AP - 18274

**Specific Gravity:** 1.033

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP, Kosher OU, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Green Caramel Apple Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Apple (Ripe) Flavor

**Product Code:** AP - 17570

**Specific Gravity:** 0.994

**Weight Per Gallon:** 8.21

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Apple Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate – Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Apple Banana Smoothie Flavor

**Product Code:** AP - 13885

**Specific Gravity:** 1.026

**Weight Per Gallon:** 8.43

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Apple Banana Like

**Diacetyl:** Free

**Usage %:** 2% - 4%

**Flash Point:** 185 Degrees F (85 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Apple Cider Flavor

**Product Code:** AP - 09185

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Apple Cider Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 185 Degrees F (85 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Apple Hoops I Flavor

**Product Code:** AP - 17039

**Specific Gravity:** 1.129

**Weight Per Gallon:** 9.30

**Ingredients:** Triethyl Citrate

**Physical State:** Liquid

**Odor:** Characteristic Apple Cinnamon Cereal

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Apple Hoops II Flavor

**Product Code:** AH - 10541.1

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.61

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol, Glycerine

**Physical State:** Liquid

**Odor:** Characteristic Apple Cinnamon Cereal

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 115 Degrees F (46 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Apple Peach Smoothie Flavor

**Product Code:** AP - 13886

**Specific Gravity:** 1.035

**Weight Per Gallon:** 8.43

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Apple Peach Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 185 Degrees F (85 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Apple Pie (A la mode) Flavor

**Product Code:** AP - 10030

**Specific Gravity:** 1.002

**Weight Per Gallon:** 8.45

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Apple Pie Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 192 Degrees F (88 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Apple Pie (Cinnamon) Flavor

**Product Code:** CI - 16001

**Specific Gravity:** 1.033

**Weight Per Gallon:** 8.52

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Cinnamon Apple Pie

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Apple Strudel Flavor

**Product Code:** AP - 17016

**Specific Gravity:** 1.010

**Weight Per Gallon:** 8.41

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Apple Strudel

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 175 Degrees F (74 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Apricot Flavor

**Product Code:** AP - 11178

**Specific Gravity:** 0.920

**Weight Per Gallon:** 7.70

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Apricot

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## **Toxicology**

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## **First Aid Measures**

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Baked Honey Oats Flavor

**Product Code:** BH - 9258.7

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.56

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic of Baked Honey Oats

**Diacetyl:** Free

**Usage %:** 10% - 12%

**Flash Point:** 113 Degrees F (45 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Banana (Ripe) Flavor

**Product Code:** BA - 17569

**Specific Gravity:** 1.023

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Ripe Banana Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Banana Cream Pie

**Product Code:** BC - 29161

**Specific Gravity:** 0.980

**Weight Per Gallon:** 8.07

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Banana Cream Pie Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Banana Custard

**Product Code:** BC - 23559

**Specific Gravity:** 1.014

**Weight Per Gallon:** 8.43

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Banana Custard Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## **Toxicology**

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate – Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## **First Aid Measures**

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Banana Flavor

**Product Code:** BA - 06878

**Specific Gravity:** 0.920

**Weight Per Gallon:** 7.63

**Ingredients:** Propylene Glycol USP Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Banana Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Banana Nut Bread Flavor

**Product Code:** BA - 17362

**Specific Gravity:** 0.991

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Banana Nut Bread Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Banana Nut Pudding Flavor

**Product Code:** BA - 06301

**Specific Gravity:** 1.014

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Characteristic Banana Nut Pudding

**Diacetyl:** Free

**Usage %:** 2% - 4%

**Flash Point:** 175 Degrees F (79 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Banana Sweet Cream

**Product Code:** BS - 14736

**Specific Gravity:** 1.010

**Weight Per Gallon:** 8.37

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Banana Sweet Cream

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Banana's Gone Nuts

**Product Code:** BA - 16014

**Specific Gravity:** 0.997

**Weight Per Gallon:** 8.25

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Bananas & Peanuts

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Bananas Foster Flavor

**Product Code:** BF - 11488.7

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Characteristic of Banana Foster

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Bavarian Cream Flavor

**Product Code:** CR - 07841

**Specific Gravity:** 1.051

**Weight Per Gallon:** 8.81

**Ingredients:** Propylene Glycol USP, Lactic Acid

**Physical State:** Liquid

**Odor:** Bavarian Cream Like

**Diacetyl:** Free

**Usage %:** 6% - 8%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Beignets Flavor

**Product Code:** BF - 11488.3

**Specific Gravity:** 1.060

**Weight Per Gallon:** 8.88

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic of Beignets

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Big Popsicle Stick

**Product Code:** BP - 13295.5

**Specific Gravity:** 1.022

**Weight Per Gallon:** 8.52

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Pineapple & Cherry

**Diacetyl:** Free

**Usage %:** 7% - 10%

**Flash Point:** 122 Degrees F (50 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Blackberry Cobbler Flavor

**Product Code:** BL - 09479

**Specific Gravity:** 1.041

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Blackberry Cobbler Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 194 Degrees F (90 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Blood Orange

**Product Code:** BO - 31212

**Specific Gravity:** 0.994

**Weight Per Gallon:** 8.12

**Ingredients:** Propylene Glycol USP, H2O

**Physical State:** Liquid

**Odor:** Orange Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Blood Orange Flavor

**Product Code:** OR - 17022

**Specific Gravity:** 1.035

**Weight Per Gallon:** 8.50

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Blood Orange Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Blow Popsicle

**Product Code:** BP - 29618.1

**Specific Gravity:** 1.073

**Weight Per Gallon:** 8.94

**Ingredients:** Propylene Glycol USP, Glycerol, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Cherry, Lime & Blue Raspberry

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 81 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

#### Eye & Face Protection:

Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

#### Hands & Feet Protection:

Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Blue Raspberry (Candy) Flavor

**Product Code:** BR - 8696.1

**Specific Gravity:** 1.180

**Weight Per Gallon:** 9.91

**Ingredients:** Propylene Glycol USP, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic of Blueberry & Raspberry Candy

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Blueberry (Fruit) Flavor

**Product Code:** BB - 7846.8

**Specific Gravity:** 1.000

**Weight Per Gallon:** 8.68

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic of Blueberry

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 131 Degrees F (55 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Blueberry Cheesecake

**Product Code:** BC - 15167.8

**Specific Gravity:** 1.042

**Weight Per Gallon:** 8.74

**Ingredients:** Propylene Glycol USP, Lactic Acid, Diacetyl Replacer OS, ART(#23.28916), Kosher OU

**Physical State:** Liquid

**Odor:** Characteristic Blueberry Cheesecake

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 131 Degrees F (55 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Blueberry Cotton Candy

**Product Code:** BC - 14606.8

**Specific Gravity:** 1.023

**Weight Per Gallon:** 8.64

**Ingredients:** propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Blueberry Cotton Candy

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 131 Degrees F (55 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Blueberry Juicy Flavor

**Product Code:** BL - 11799

**Specific Gravity:** 0.906

**Weight Per Gallon:** 7.45

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Blueberry Like

**Diacetyl:** Free

**Usage %:** 2% - 4%

**Flash Point:** 81 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Blueberry Shortcake Flavor

**Product Code:** BL - 17390

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.61

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Blueberry Shortcake Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Blueberry Yogurt

**Product Code:** BY - 15200.8

**Specific Gravity:** 1.046

**Weight Per Gallon:** 8.70

**Ingredients:** Propylene Glycol USP, Lactic Acid, Diacetyl Replacer OS, ART(#23.28916)

**Physical State:** Liquid

**Odor:** Blueberry Yogurt Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 131 Degrees F (55 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## **Toxicology**

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## **First Aid Measures**

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Bonanza Bob Bubble Gum Flavor

**Product Code:** BG - 05414

**Specific Gravity:** 1.005

**Weight Per Gallon:** 8.30

**Ingredients:** Propylene Glycol USP Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Bubble Gum

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 182 Degrees F (83 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Bourbon Whiskey Flavor

**Product Code:** BW - 8429.2

**Specific Gravity:** 0.920

**Weight Per Gallon:** 7.72

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Bourbon Whiskey

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 174 Degrees F (79 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Boysenberry Pie Flavor

**Product Code:** BP - 12289.1

**Specific Gravity:** 1.070

**Weight Per Gallon:** 8.99

**Ingredients:** Propylene Glycol USP, Glycerine, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Boysenberry Pie Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 86 Degrees F (30 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## **Toxicology**

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## **First Aid Measures**

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Bread Pudding Flavor

**Product Code:** BP - 11488.1

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.62

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Characteristic of Bread Pudding

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Butter Emulsion

**Product Code:** BU - 07341

**Specific Gravity:** 1.013

**Weight Per Gallon:** 8.52

**Ingredients:** Propylene Glycol USP, Glycerine 99.5% USP, Thixogum "S" (Arabic and xanthan Gums), Polysorbate 80, Mercol Gum FA, Citric Acid, Sodium Benzoate, Gum Tragacanth, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Butter Like

**Diacetyl:** Free

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Butter Pecan Flavor

**Product Code:** BU - 07553

**Specific Gravity:** 1.035

**Weight Per Gallon:** 8.56

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Characteristic Butter Pecan

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Butter Pecan Ice Cream

**Product Code:** BP - 24754

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.62

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Characteristic Butter Pecan Ice Cream

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Butter Rum Flavor

**Product Code:** BU - 12050

**Specific Gravity:** 0.975

**Weight Per Gallon:** 8.00

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Butter Rum

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Butter Toffee Flavor

**Product Code:** TO - 13333

**Specific Gravity:** 1.041

**Weight Per Gallon:** 8.17

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Butter Toffee Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## Firefighting Measures

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## Accidental Measures

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## Handling & Precautions

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## Storage:

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## Disposal

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Butterscotch (Candy) Flavor

**Product Code:** BU - 13337

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Butterscotch Candy

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cactus Soda Flavor

**Product Code:** CS - 8142.1

**Specific Gravity:** 1.080

**Weight Per Gallon:** 9.10

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Cactus Soda Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 75 Degrees F (24 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cake (Raspberry Coco)

**Product Code:** RC - 31006.2

**Specific Gravity:** 1.110

**Weight Per Gallon:** 9.28

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol, Kosher OU

**Physical State:** Liquid

**Odor:** Raspberry Coconut Cake Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 174 Degrees F (79 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cake (Yellow) Flavor

**Product Code:** CA -16994

**Specific Gravity:** 1.053

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Yellow Cake

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 160 Degrees F (40 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

- Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.
- Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.
- Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.
- Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

- Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay
- Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cake Batter Flavor

**Product Code:** CB - 8696.2

**Specific Gravity:** 1.16

**Weight Per Gallon:** 9.68

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic of Cake Batter

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 174 Degrees F (79 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cake Blueberry Coco Flavor

**Product Code:** BC - 11739.1

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Characteristic Blue Velvet Cake

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 99 Degrees F (37 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Candy Apple Flavor (Oil)

**Product Code:** AP - 05938

**Specific Gravity:** 0.916

**Weight Per Gallon:** 7.65

**Ingredients:** Soybean Oil

**Physical State:** Liquid

**Odor:** Characteristic Candy Apple

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 185 Degrees F (85 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Candy Corn Flavor

**Product Code:** CA - 14104

**Specific Gravity:** 0.981

**Weight Per Gallon:** 8.17

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Candy Corn Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cantaloupe Flavor

**Product Code:** CA - 11148

**Specific Gravity:** 1.029

**Weight Per Gallon:** 8.56

**Ingredients:** Propylene Glycol USP, H2O

**Physical State:** Liquid

**Odor:** Characteristic Cantaloupe

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 190 Degrees F (88 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Captain Cereal Flavor

**Product Code:** CE - 17028

**Specific Gravity:** 1.049

**Weight Per Gallon:** 8.73

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Captain Cereal Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Captain N Berries

**Product Code:** CB - 33551.9

**Specific Gravity:** 1.061

**Weight Per Gallon:** 8.89

**Ingredients:** Propylene Glycol USP, Glycerol

**Physical State:** Liquid

**Odor:** Captain N Berries Cereal Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Caramel Blend I Flavor

**Product Code:** CA - 06268

**Specific Gravity:** 1.037

**Weight Per Gallon:** 8.77

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Characteristic Caramel

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Caramel Blend II Flavor

**Product Code:** CA - 05175

**Specific Gravity:** 1.046

**Weight Per Gallon:** 8.67

**Ingredients:** Propylene Glycol USP, H2O

**Physical State:** Liquid

**Odor:** Characteristic Caramel

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Caramel Candy Squares Flavor

**Product Code:** CC - 9688.2

**Specific Gravity:** 1.120

**Weight Per Gallon:** 9.40

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic of Caramel

**Diacetyl:** Free

**Usage %:** 9% - 11%

**Flash Point:** 88 Degrees F (31 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Caramel Drizzle Cheesecake

**Product Code:** CC - 13589

**Specific Gravity:** 1.045

**Weight Per Gallon:** 8.76

**Ingredients:** Propylene Glycol USP, Lactic Acid, Diacetyl Replacer OS, ART(#23.28916), Kosher OU

**Physical State:** Liquid

**Odor:** Caramel Drizzle Cheesecake Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 194 Degrees F (90 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Caramel Popcorn Flavor

**Product Code:** CP - 11989.1

**Specific Gravity:** 1.110

**Weight Per Gallon:** 9.27

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Caramel Popcorn Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 131 Degrees F (55 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Carrot Cake Flavor

**Product Code:** CA - 15605

**Specific Gravity:** 1.039

**Weight Per Gallon:** 8.70

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Carrot Cake

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cheesecake Flavor

**Product Code:** CH - 07321

**Specific Gravity:** 1.053

**Weight Per Gallon:** 8.75

**Ingredients:** Propylene Glycol USP, Lactic Acid, Diacetyl Replacer OS, ART(#23.28916), Kosher OU

**Physical State:** Liquid

**Odor:** Dairy Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 194 Degrees F (90 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cherry Berry Flavor

**Product Code:** CH - 17716

**Specific Gravity:** 1.031

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Cherry Berry Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cherry Blossom Tea Flavor

**Product Code:** CH - 8121.3

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Characteristic of Cherry Blossom Tea

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cherry Pie Flavor

**Product Code:** CH - 9815.4

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.74

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic Cherry Pie

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 124 Degrees F (51 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Chocolate Brownie Flavor

**Product Code:** BR - 14194

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.76

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Chocolate Brownie

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Chocolate Cheesecake

**Product Code:** CC - 15573

**Specific Gravity:** 1.089

**Weight Per Gallon:** 9.04

**Ingredients:** Propylene Glycol USP, Lactic Acid, Diacetyl Replacer OS, ART(#23.28916), Kosher OU, H2O

**Physical State:** Liquid

**Odor:** Chocolate Cheesecake Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 194 Degrees F (90 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Chocolate Chip Flavor

**Product Code:** CT - 14025

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Chocolate Chip Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Chocolate Churro

**Product Code:** CC - 25276

**Specific Gravity:** 1.073

**Weight Per Gallon:** 8.89

**Ingredients:** Propylene Glycol USP, H2O

**Physical State:** Liquid

**Odor:** Chocolate Churro Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Chocolate Dark Candy Roll Flavor

**Product Code:** CH - 9258.3

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.50

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Chocolate Candy Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 102 Degrees F (39 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Chocolate Milk

**Product Code:** CM - 13804.5

**Specific Gravity:** 1.106

**Weight Per Gallon:** 9.23

**Ingredients:** Propylene Glycol USP, Glycerol, Ethanol, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Characteristic Chocolate Milk

**Diacetyl:** Free

**Usage %:** 7% - 10%

**Flash Point:** 126 Degrees F (52 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Chocolate Peanut Cup Flavor

**Product Code:** CT - 05659

**Specific Gravity:** 1.034

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP, Lactic Acid

**Physical State:** Liquid

**Odor:** Chocolate Peanut Cup Flavor

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Chocolate Peppermint Candy Flavor

**Product Code:** CP - 9258.4

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.63

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic of Chocolate Peppermint Candy

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 104 Degrees F (40 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Chocolate Strawberry

**Product Code:** CS - 10456.1

**Specific Gravity:** 1.017

**Weight Per Gallon:** 8.48

**Ingredients:** Propylene Glycol USP, Ethanol, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Chocolate Strawberry Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 126 Degrees F (52 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Churro Flavor

**Product Code:** CH - 17024

**Specific Gravity:** 1.060

**Weight Per Gallon:** 8.77

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Churro

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cinnamon Bears Flavor

**Product Code:** CI - 13535

**Specific Gravity:** 1.012

**Weight Per Gallon:** 8.42

**Ingredients:** Propylene Glycol USP, H<sub>2</sub>O, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Cinnamon Bears

**Diacetyl:** Free

**Usage %:** 1% - 5%

**Flash Point:** 130 Degrees F (54 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cinnamon Crunch I Cereal Flavor

**Product Code:** CC - 8810.1

**Specific Gravity:** 1.180

**Weight Per Gallon:** 9.89

**Ingredients:** Propylene Glycol USP, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic of Cinnamon Crunch Cereal

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cinnamon Crunch II Cereal Flavor

**Product Code:** CC - 9504.1

**Specific Gravity:** 1.050

**Weight Per Gallon:** 8.84

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerine

**Physical State:** Liquid

**Odor:** Characteristic of Cinnamon Crunch Cereal

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 115 Degrees F (46 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cinnamon Roll Flavor

**Product Code:** CI - 17729

**Specific Gravity:** 1.057

**Weight Per Gallon:** 8.77

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Cinnamon Roll

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cinnamon Roll Flavor

**Product Code:** CI - 14020

**Specific Gravity:** 1.034

**Weight Per Gallon:** 8.61

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Cinnamon Roll

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cinnamon Roll w/Caramel

**Product Code:** CR - 20288

**Specific Gravity:** 1.036

**Weight Per Gallon:** 8.74

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Cinnamon Roll w/Caramel Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Citrus Punch Flavor

**Product Code:** CI - 17154

**Specific Gravity:** 0.928

**Weight Per Gallon:** 7.52

**Ingredients:** Benzaldehyde USP

**Physical State:** Liquid

**Odor:** Citrus Punch Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 135 Degrees F (57 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Coco Stones I Chocolate Cereal Flavor

**Product Code:** CO - 17175

**Specific Gravity:** 1.044

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Cocoa Stones Cereal Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 120 Degrees F (49 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Coco Stones II Chocolate Cereal Flavor

**Product Code:** CP - 10541.5

**Specific Gravity:** 1.060

**Weight Per Gallon:** 8.90

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic of Coco Stones Cereal

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 149 Degrees F (65 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Coconut Candy Flavor

**Product Code:** CC - 27128.7

**Specific Gravity:** 1.010

**Weight Per Gallon:** 8.45

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic Coconut Candy

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 84 Degrees F (29 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Coconut Cream Pie

**Product Code:** CC - 28092

**Specific Gravity:** 1.036

**Weight Per Gallon:** 8.49

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Characteristic Coconut Cream Pie

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 194 Degrees F (90 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** EXtracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Coconut Milk Flavor

**Product Code:** CO - 8128.2

**Specific Gravity:** 0.950

**Weight Per Gallon:** 7.95

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Characteristic of Coconut Milk

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 84 Degrees F (29 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Coconut Toasted Flavor

**Product Code:** CO - 16888

**Specific Gravity:** 1.032

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Toasted Coconut Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Condensed Milk (Sweet Caramel)

**Product Code:** CA - 17538

**Specific Gravity:** 1.031

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Caramel Milk Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cookie C's Cereal Flavor

**Product Code:** CC - 8810.2

**Specific Gravity:** 1.180

**Weight Per Gallon:** 9.87

**Ingredients:** Propylene Glycol USP, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic of Cookie C's Cereal

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cookies & Cream Flavor

**Product Code:** CC - 06255

**Specific Gravity:** 1.046

**Weight Per Gallon:** 8.69

**Ingredients:** Propylene Glycol USP, Lactic Acid, Contains only Kosher OU material

**Physical State:** Liquid

**Odor:** Characteristic Cookies & Cream

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Corn Bread Flavor

**Product Code:** CO - 17045

**Specific Gravity:** 1.033

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Corn Bread Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Corn Puffs Cereal Flavor

**Product Code:** CP - 11999.1

**Specific Gravity:** 1.010

**Weight Per Gallon:** 8.50

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Corn Puff Cereal Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 127 Degrees F (53 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cosmopolitan Martini Flavor

**Product Code:** CO - 17516

**Specific Gravity:** 1.235

**Weight Per Gallon:** 10.29

**Ingredients:** Glycerine 99.5% USP

**Physical State:** Liquid

**Odor:** Cosmopolitan Martini Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cowboy West Tobacco Flavor

**Product Code:** CW - 06161

**Specific Gravity:** 1.090

**Weight Per Gallon:** 9.20

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic Tobacco

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cream Flavor

**Product Code:** CR - 17525

**Specific Gravity:** 1.112

**Weight Per Gallon:** 9.25

**Ingredients:** Glycerine 99.5% USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Cream Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 100 Degrees F (38 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cream Milky Undertone PG Flavor

**Product Code:** CR - 9422.1

**Specific Gravity:** 1.060

**Weight Per Gallon:** 8.81

**Ingredients:** Propylene Glycol USP, Glycerol, Ethanol

**Physical State:** Liquid

**Odor:** Characteristic of Cream

**Diacetyl:** Free

**Usage %:** 10% - 13%

**Flash Point:** 156 Degrees F (69 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cream Milky Undertone VG Flavor

**Product Code:** CR - 8677.4

**Specific Gravity:** 1.130

**Weight Per Gallon:** 9.47

**Ingredients:** Propylene Glycol USP, Glycerol, Ethanol

**Physical State:** Liquid

**Odor:** Characteristic of Cream

**Diacetyl:** Free

**Usage %:** 10% - 13%

**Flash Point:** 153 Degrees F (67 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cream OOO Blend I Flavor

**Product Code:** CR - 17089

**Specific Gravity:** 1.027

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Cream Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cream Soda Flavor

**Product Code:** CR - 06796

**Specific Gravity:** 0.932

**Weight Per Gallon:** 7.76

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Cream Soda

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Creamy Yogurt Cheesecake Flavor

**Product Code:** YC - 11961.2

**Specific Gravity:** 1.010

**Weight Per Gallon:** 8.49

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Creamy Yogurt Cheesecake Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 129 Degrees F (54 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Crème Brulee Flavor

**Product Code:** CR - 11083

**Specific Gravity:** 1.093

**Weight Per Gallon:** 9.04

**Ingredients:** Propylene Glycol USP, Lactic Acid

**Physical State:** Liquid

**Odor:** Crème Brulee Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 120 Degrees F (49 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cucumber Flavor

**Product Code:** CU - 13400

**Specific Gravity:** 1.034

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Cucumber Like

**Diacetyl:** Free

**Usage %:** 1% - 2%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Cucumber w/Mint

**Product Code:** CM - 23755.2

**Specific Gravity:** 1.025

**Weight Per Gallon:** 8.59

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Cucumber w/Mint Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 84 Degrees F (29 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Custard Flavor

**Product Code:** CU - 16681

**Specific Gravity:** 1.037

**Weight Per Gallon:** 8.63

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Custard Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Double Dutch Chocolate Flavor

**Product Code:** CT - 08252

**Specific Gravity:** 1.104

**Weight Per Gallon:** 9.16

**Ingredients:** Propylene Glycol USP, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Double Chocolate Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Dr. Soda Flavor

**Product Code:** DP - 06635

**Specific Gravity:** 1.031

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Dr. Soda Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 130 Degrees F (54 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Dragon Fruit Flavor

**Product Code:** DF - 9098.1

**Specific Gravity:** 1.180

**Weight Per Gallon:** 9.82

**Ingredients:** Propylene Glycol USP, Glycerol

**Physical State:** Liquid

**Odor:** Dragon Fruit Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Egg Nog Flavor

**Product Code:** EG - 05528

**Specific Gravity:** 0.988

**Weight Per Gallon:** 8.23

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Egg Nog

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 98 Degrees F (36 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Energy Booster Flavor

**Product Code:** EN - 17156

**Specific Gravity:** 0.988

**Weight Per Gallon:** 8.29

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Characteristic Energy Booster

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 90 Degrees F (32 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Energy Drink (Green) Flavor

**Product Code:** MO - 17062

**Specific Gravity:** 1.024

**Weight Per Gallon:** 8.55

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Energy Drink Green Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Energy Drink (Red) Flavor

**Product Code:** RE - 13405

**Specific Gravity:** 1.018

**Weight Per Gallon:** 8.55

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Energy Drink Red Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Energy Rock

**Product Code:** ER - 30467

**Specific Gravity:** 1.021

**Weight Per Gallon:** 8.55

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Energy Rock Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Espresso Emulsion

**Product Code:** CF - 16231

**Specific Gravity:** 1.091

**Weight Per Gallon:** 9.50

**Ingredients:** H<sub>2</sub>O, Propylene Glycol USP, Thixogum "S" (Arabic & Xanthan Gums), Polysorbate 80, Citric Acid, Sodium Benzoate

**Physical State:** Liquid

**Odor:** Espresso Coffee Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Ethyl Maltol VG Flavor

**Product Code:** CC - 9688.3

**Specific Gravity:** 1.090

**Weight Per Gallon:** 9.07

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic of Cotton Candy

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 88 Degrees F (31 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Firni Pudding Flavor

**Product Code:** FP - 11488.8

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Firni Pudding Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Flan Flavor

**Product Code:** FL - 16995

**Specific Gravity:** 1.035

**Weight Per Gallon:** 8.63

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Flan Like

**Diacetyl:** Free

**Usage %:** 10% - 12%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial French Toast Flavor

**Product Code:** TO - 15922

**Specific Gravity:** 1.046

**Weight Per Gallon:** 8.77

**Ingredients:** Propylene Glycol USP, H2O

**Physical State:** Liquid

**Odor:** French Toast Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 140 Degrees F (60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Frooty Stones I Flavor

**Product Code:** FR - 17018

**Specific Gravity:** 0.920

**Weight Per Gallon:** 7.65

**Ingredients:** Soybean Oil, Polysorbate 80

**Physical State:** Liquid

**Odor:** Frooty Stones Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Frooty Stones II Flavor

**Product Code:** FR - 17026

**Specific Gravity:** 0.957

**Weight Per Gallon:** 7.91

**Ingredients:** Soybean Oil, Polysorbate 80

**Physical State:** Liquid

**Odor:** Frooty Stones Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Frooty Stones III Flavor

**Product Code:** FR - 17169

**Specific Gravity:** 1.047

**Weight Per Gallon:** 8.65

**Ingredients:** Triethyl Citrate

**Physical State:** Liquid

**Odor:** Frooty Stones Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 199 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Frooty Stones IV Flavor

**Product Code:** FR - 17170

**Specific Gravity:** 1.000

**Weight Per Gallon:** 8.65

**Ingredients:** Triethyl Citrate

**Physical State:** Liquid

**Odor:** Frooty Stones Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Fruit Punch Flavor

**Product Code:** FP - 10332

**Specific Gravity:** 1.026

**Weight Per Gallon:** 8.55

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Fruit Punch Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Fruity Flakes Cereal Flavor

**Product Code:** FF - 12272.1

**Specific Gravity:** .970

**Weight Per Gallon:** 8.16

**Ingredients:** Propylene Glycol USP, Ethanol, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Fruit Flakes Cereal Like

**Diacetyl:** Free

**Usage %:** 10% - 13%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Fruity Hoops I Cereal Flavor

**Product Code:** FR - 17017

**Specific Gravity:** 0.933

**Weight Per Gallon:** 7.75

**Ingredients:** Soybean Oil, Polysorbate 80

**Physical State:** Liquid

**Odor:** Fruit Hoops Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 130 Degrees F (54 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Fruity Hoops II Cereal Flavor

**Product Code:** FH - 10645.2

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.54

**Ingredients:** Propylene Glycol USP, Glycerine, Ethanol

**Physical State:** Liquid

**Odor:** Fruit Hoops Cereal Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 91 Degrees F (33 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Fruity Hoops III Cereal Flavor

**Product Code:** FR - 17168

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.65

**Ingredients:** Triethyl Citrate

**Physical State:** Liquid

**Odor:** Fruit Hoops Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 130 Degrees F (54 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Fruity Hoops IV Cereal Flavor

**Product Code:** FH - 10965.1

**Specific Gravity:** 1.070

**Weight Per Gallon:** 9.04

**Ingredients:** Propylene Glycol USP, Glycerine, Ethanol

**Physical State:** Liquid

**Odor:** Fruit Hoops Cereal Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 115 Degrees F (46 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Fudge Brownie Flavor

**Product Code:** BR- 17153

**Specific Gravity:** 1.047

**Weight Per Gallon:** 8.76

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Fudge Brownie Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 190 Degrees F (88 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Ginger Pumpkin Spice Latte Flavor

**Product Code:** GP - 11488.5

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Ginger Pumpkin Spice Latte Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Gingerbread Cookie Flavor

**Product Code:** GI - 13489

**Specific Gravity:** 1.041

**Weight Per Gallon:** 8.67

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Gingerbread Cookie Like

**Diacetyl:** Free

**Usage %:** 2% - 4%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Girly Cookies (Caramel Coco) Flavor

**Product Code:** CA - 17225

**Specific Gravity:** 1.035

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic of Coconut, Caramel & Chocolate

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Girly Cookies (Choco Mint) Flavor

**Product Code:** CT - 17224

**Specific Gravity:** 1.026

**Weight Per Gallon:** 8.55

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Mint Cookie Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 150 Degrees F (66 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Girly Cookies (Lemonades) Flavor

**Product Code:** LE - 17230

**Specific Gravity:** 0.921

**Weight Per Gallon:** 7.67

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Lemon Cookie

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Girly Cookies (Shortbread) Flavor

**Product Code:** SH - 17227

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.59

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Shortbread Cookie Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Glazed Donut Flavor

**Product Code:** GD - 9098.2

**Specific Gravity:** 1.120

**Weight Per Gallon:** 9.31

**Ingredients:** Propylene Glycol USP, Glycerol, Ethanol

**Physical State:** Liquid

**Odor:** Characteristic Glazed Donut

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Golden Greats Cereal Flavor

**Product Code:** HO - 17173

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Golden Greats Cereal Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Golden Oats Flavor

**Product Code:** HO - 17449

**Specific Gravity:** 1.028

**Weight Per Gallon:** 8.62

**Ingredients:** Glycerine

**Physical State:** Liquid

**Odor:** Characteristic Golden Oats Cereal

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 100 Degrees F (38 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Golden Sponge Cake

**Product Code:** GC - 12400.1

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.68

**Ingredients:** Propylene Glycol, Glycerine, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Golden Sponge Like

**Diacetyl:** Free

**Usage %:** 10% - 12%

**Flash Point:** 118 Degrees F (48 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Graham Cracker Flavor

**Product Code:** GR - 14107

**Specific Gravity:** 1.041

**Weight Per Gallon:** 8.68

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Graham Cracker Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Green Tea Emulsion

**Product Code:** TE - 17245

**Specific Gravity:** Not Determined

**Weight Per Gallon:** 8.42

**Ingredients:** Thixogum "S", Citric Acid, Sodium Benzoate, Potassium Sorbate, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Green Tea Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Guava (Fresh) Flavor

**Product Code:** GU - 05750

**Specific Gravity:** 1.006

**Weight Per Gallon:** 8.41

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Guava Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 130 Degrees F (54 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Guava (Ripe) Flavor

**Product Code:** GU - 12990

**Specific Gravity:** 1.037

**Weight Per Gallon:** 8.64

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Guava Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 190 Degrees F (88 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Guava Flavor

**Product Code:** GU - 8087.2

**Specific Gravity:** 0.970

**Weight Per Gallon:** 8.09

**Ingredients:** Propylene Glycol, Ethanol

**Physical State:** Liquid

**Odor:** Guava Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 86 Degrees F (30 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Gummy Fish Candy Flavor

**Product Code:** SW - 06752

**Specific Gravity:** 1.027

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Gummy Fish Candy Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Happy Rancher Strawberry Flavor

**Product Code:** ST - 17134

**Specific Gravity:** 1.033

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Strawberry Happy Rancher Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Happy Rancher Watermelon Flavor

**Product Code:** WA - 17133

**Specific Gravity:** 1.032

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Watermelon Happy Rancher Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Honey Flavor

**Product Code:** HO - 12245

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.75

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Honey Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Honey II Flavor

**Product Code:** HO - 9093.1

**Specific Gravity:** 1.000

**Weight Per Gallon:** 8.35

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Honey Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 117 Degrees F (47 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Honey Puffs I Flavor

**Product Code:** CO - 17174

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Honey Puffs Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Honey Puffs II Cereal Flavor

**Product Code:** HO - 10541.3

**Specific Gravity:** 1.060

**Weight Per Gallon:** 8.95

**Ingredients:** Propylene Glycol USP, Glycerine, Ethanol

**Physical State:** Liquid

**Odor:** Honey Puffs Cereal Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 131 Degrees F (55 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Honeydew Melon Flavor

**Product Code:** HO - 08003

**Specific Gravity:** 1.027

**Weight Per Gallon:** 8.54

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Honeydew Melon Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Horchata Flavor

**Product Code:** HO - 7924.6

**Specific Gravity:** 1.000

**Weight Per Gallon:** 8.39

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Horchata Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 100 Degrees F (38 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Hot Chile Pepper (VG) Flavor

**Product Code:** CH - 17504

**Specific Gravity:** 1.251

**Weight Per Gallon:** 10.25

**Ingredients:** Glycerine

**Physical State:** Liquid

**Odor:** Hot Chile Pepper Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Hot Mexican Candy Flavor

**Product Code:** CI - 15005

**Specific Gravity:** 1.035

**Weight Per Gallon:** 8.45

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Hot Mexican Candy

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Key Lime Flavor

**Product Code:** LI - 17011

**Specific Gravity:** 0.932

**Weight Per Gallon:** 7.78

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Key Lime

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Key Lime Pie Flavor

**Product Code:** KP - 31436

**Specific Gravity:** 0.964

**Weight Per Gallon:** 7.98

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Key Lime Pie

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Lemon Cheesecake

**Product Code:** LC - 21725

**Specific Gravity:** 1.004

**Weight Per Gallon:** 8.36

**Ingredients:** Propylene Glycol USP, Lactic Acid, Diacetyl Replacer OS, ART(#23.28916), Kosher OU, Ethanol

**Physical State:** Liquid

**Odor:** Lemon Cheesecake Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 61 Degrees F (16 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Lemon Lime Up Soda Flavor

**Product Code:** LE - 7846.3

**Specific Gravity:** 1.050

**Weight Per Gallon:** 8.87

**Ingredients:** Glycerol, Ethanol

**Physical State:** Liquid

**Odor:** Lemon Lime Up Soda Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 72 Degrees F (22 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** II

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Lemon Muffin Flavor

**Product Code:** LM - 11488.4

**Specific Gravity:** 1.060

**Weight Per Gallon:** 8.84

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Characteristic Lemon Muffin

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 142 Degrees F (61 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** II

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Lemon Pound Cake Flavor

**Product Code:** LC - 12270.1

**Specific Gravity:** 1.010

**Weight Per Gallon:** 8.49

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Lemon Pound Cake Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 106 Degrees F (41 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Lemon Tea Flavor

**Product Code:** LT - 7672.3

**Specific Gravity:** 1.050

**Weight Per Gallon:** 8.80

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Lemon Tea Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** II

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Lime Flavor

**Product Code:** LE - 08713

**Specific Gravity:** 0.926

**Weight Per Gallon:** 7.70

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Lime

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 81 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Lime Sorbet Flavor

**Product Code:** LI - 17187

**Specific Gravity:** 1.113

**Weight Per Gallon:** 9.29

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Lime Like

**Diacetyl:** Free

**Usage %:** 1% - 2%

**Flash Point:** 190 Degrees F (88 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Lychee Flavor

**Product Code:** LY - 8600.3

**Specific Gravity:** 1.130

**Weight Per Gallon:** 9.53

**Ingredients:** Propylene Glycol USP, Glycerol, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Lychee Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Mai Tai Type Flavor

**Product Code:** MT - 9258.2

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic Mai Tai

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 126 Degrees F (52 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Malted Milk Flavor

**Product Code:** MA - 16992

**Specific Gravity:** 1.037

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Malted Milk Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Mango (Candy) Flavor

**Product Code:** MA - 06316

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.63

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Mango Candy Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Mango (Ripe) Flavor

**Product Code:** MA - 7672.1

**Specific Gravity:** 0.990

**Weight Per Gallon:** 8.32

**Ingredients:** Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Mango Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 72 Degrees F (22 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** II

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Mango (Sweet)

**Product Code:** MS - 12067.2

**Specific Gravity:** 1.140

**Weight Per Gallon:** 9.52

**Ingredients:** Glycerine, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Mango Sweet Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 73 Degrees F (23 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Mango Sorbet Flavor

**Product Code:** MA - 17202

**Specific Gravity:** 1.123

**Weight Per Gallon:** 9.35

**Ingredients:** Triethyl Citrate

**Physical State:** Liquid

**Odor:** Mango Sorbet Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Maple Flavor

**Product Code:** MA - 11787.8

**Specific Gravity:** 0.990

**Weight Per Gallon:** 8.33

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Maple Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 100 Degrees F (38 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Maple Flavor (Oil)

**Product Code:** MA - 13254

**Specific Gravity:** 0.916

**Weight Per Gallon:** 7.65

**Ingredients:** Soybean Oil

**Physical State:** Liquid

**Odor:** Characteristic Maple

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 185 Degrees F (85 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Maple Syrup Flavor

**Product Code:** MA - 10901

**Specific Gravity:** 1.055

**Weight Per Gallon:** 8.78

**Ingredients:** Propylene Glycol USP, Diacetyl Replacer OS, Art (#23.28916), H2O

**Physical State:** Liquid

**Odor:** Maple Syrup Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Marshmallow (White Puffy V.I) Flavor

**Product Code:** MA - 13123

**Specific Gravity:** 1.051

**Weight Per Gallon:** 8.70

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Marshmallow Like

**Diacetyl:** Free

**Usage %:** 10% - 13%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

- Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.
- Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.
- Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.
- Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

- Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay
- Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Marshmallow (White Puffy V.II) Flavor

**Product Code:** MM - 12455.1

**Specific Gravity:** 1.130

**Weight Per Gallon:** 9.47

**Ingredients:** Propylene Glycol USP, Glycerine, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Marshmallow Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 102 Degrees F (39 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Marshmallow Cereal PG Flavor

**Product Code:** MA - 13086.1

**Specific Gravity:** 1.050

**Weight Per Gallon:** 8.73

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Marshmallow Cereal Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Marshmallow Cereal PG Flavor

**Product Code:** MA - 9504.2

**Specific Gravity:** 1.050

**Weight Per Gallon:** 8.80

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerine

**Physical State:** Liquid

**Odor:** Marshmallow Cereal Like

**Diacetyl:** Free

**Usage %:** 10% - 13%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Marshmallow Cereal VG Flavor

**Product Code:** MA - 13086.2

**Specific Gravity:** 1.050

**Weight Per Gallon:** 8.80

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Marshmallow Cereal Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Melon Flavor

**Product Code:** ME - 7780.3

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.54

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Melon Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 118 Degrees F (48 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Melon Gummy Candy Flavor

**Product Code:** MG - 12078.1

**Specific Gravity:** 1.140

**Weight Per Gallon:** 9.59

**Ingredients:** Glycerol, Ethanol

**Physical State:** Liquid

**Odor:** Honeydew Candy Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 81 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Merlot Flavor

**Product Code:** WI - 16668

**Specific Gravity:** 1.013

**Weight Per Gallon:** 8.44

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Merlot Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Milk Flavor

**Product Code:** CR - 17447

**Specific Gravity:** 1.095

**Weight Per Gallon:** 9.11

**Ingredients:** Propylene Glycol USP, Glycerine

**Physical State:** Liquid

**Odor:** Milk Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Milk Shake (Banana) Flavor

**Product Code:** MB - 11589.4

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.68

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic Banana Milkshake

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 160 Degrees F (40 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Milk Shake (Vanilla) Flavor

**Product Code:** MV - 11422.3

**Specific Gravity:** 1.010

**Weight Per Gallon:** 8.49

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Characteristic Vanilla Milkshake

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 117 Degrees F (47 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Milk Tea Flavor

**Product Code:** MT - 34652

**Specific Gravity:** 1.081

**Weight Per Gallon:** 9.01

**Ingredients:** Propylene Glycol USP, Mate Absolute, Glycerine

**Physical State:** Liquid

**Odor:** Milk Tea Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Mint Flavor

**Product Code:** MI - 10316

**Specific Gravity:** 1.010

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Mint

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 100 Degrees F (38 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Mojito Flavor

**Product Code:** MO - 9327.6

**Specific Gravity:** 1.010

**Weight Per Gallon:** 8.47

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerine

**Physical State:** Liquid

**Odor:** Characteristic Mojito

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 113 Degrees F (45 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Neopolitan Ice Cream

**Product Code:** NI - 19598.3

**Specific Gravity:** 1.005

**Weight Per Gallon:** 8.38

**Ingredients:** Propylene Glycol USP, Ethanol, H<sub>2</sub>O, Glycerol

**Physical State:** Liquid

**Odor:** Neopolitan Ice Cream Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 82 Degrees F (28 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Norwegian Ring Cake Flavor

**Product Code:** NR - 11488.2

**Specific Gravity:** 1.060

**Weight Per Gallon:** 8.81

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Norwegian Ring Cake Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 147 Degrees F (64 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Nutmeg Flavor

**Product Code:** NU - 11787.6

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.55

**Ingredients:** Propylene Glycol USP Ethyl Alcohol, Glycerine

**Physical State:** Liquid

**Odor:** Nutmeg Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 90 Degrees F (32 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Nutty Professor PG Flavor

**Product Code:** NU - 17451

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Nut Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Nutty Professor VG Flavor

**Product Code:** NU - 17452

**Specific Gravity:** 1.280

**Weight Per Gallon:** 10.60

**Ingredients:** Glycerine

**Physical State:** Liquid

**Odor:** Nut Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial O's Cookie Flavor

**Product Code:** CO - 15604

**Specific Gravity:** 1.048

**Weight Per Gallon:** 8.70

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** O's Cookie Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 140 Degrees F (60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Oatmeal Flavor

**Product Code:** OA - 12831

**Specific Gravity:** 1.037

**Weight Per Gallon:** 8.59

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Oatmeal Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Orange Sherbet Ice Cream Flavor

**Product Code:** OR - 16611

**Specific Gravity:** 1.034

**Weight Per Gallon:** 9.30

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Orange Sherbet Ice Cream Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Orange Square Candy Flavor

**Product Code:** OR - 17108

**Specific Gravity:** 1.012

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Orange Square Candy Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 140 Degrees F (66 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Papaya (VG) Flavor

**Product Code:** PA - 17507

**Specific Gravity:** 1.177

**Weight Per Gallon:** 9.90

**Ingredients:** Glycerine

**Physical State:** Liquid

**Odor:** Papaya Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 140 Degrees F (60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



**Product Name:** Natural & Artificial Passionfruit Flavor

**Product Code:** PF - 7846.9

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.70

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Passionfruit

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 117 Degrees F (47 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

**Emergency Telephone Number**

PERS (24HR Emergency) 800-633-8253

**Exposure Controls**

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Peach (Ripe) Flavor

**Product Code:** PR - 7672.6

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.56

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Peach Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Peach (Sweet) Flavor

**Product Code:** PH - 17129

**Specific Gravity:** 1.035

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Sweet Peach Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Peach Cobbler Flavor

**Product Code:** PH - 17141

**Specific Gravity:** 1.015

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Peach Cobbler Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 140 Degrees F (60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Peach Ring Candy Flavor

**Product Code:** PH - 13175

**Specific Gravity:** 1.028

**Weight Per Gallon:** 8.55

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Peach Ring Candy Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Peach Sorbet Flavor

**Product Code:** PH - 17189

**Specific Gravity:** 1.037

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Peach Sorbet Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Peach Tobacco Flavor

**Product Code:** PT - 8472.1

**Specific Gravity:** 1.090

**Weight Per Gallon:** 9.20

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic Peach Tobacco

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Peaches & Cream Flavor

**Product Code:** PH - 05694

**Specific Gravity:** 1.031

**Weight Per Gallon:** 8.68

**Ingredients:** Propylene Glycol USP, Lactic Acid, Kosher OU

**Physical State:** Liquid

**Odor:** Peaches & Cream Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Peanut Butter & Jelly (Grape Jelly) Flavor

**Product Code:** PB - 10706

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Peanut Butter & Grape Jelly Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Peanut Butter Cereal Balls Flavor

**Product Code:** PB - 8810.5

**Specific Gravity:** 1.150

**Weight Per Gallon:** 9.63

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic Peanut Butter Cereal Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 132 Degrees F (56 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Peanut Butter Flavor

**Product Code:** PB - 09136

**Specific Gravity:** 1.048

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Peanut Butter Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pear (Juicy) Flavor

**Product Code:** PE - 15670

**Specific Gravity:** 1.033

**Weight Per Gallon:** 8.59

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Pear Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pie Crust Flavor

**Product Code:** CR - 14425

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.45

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Pie Crust Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pineapple Chili

**Product Code:** PC - 30120.5

**Specific Gravity:** 1.021

**Weight Per Gallon:** 8.41

**Ingredients:** Propylene Glycol USP, H<sub>2</sub>O, Lactic Acid, Kosher OU, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Pineapple Chilli Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 122 Degrees F (50 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pineapple Colada

**Product Code:** PC - 13655.5

**Specific Gravity:** 1.024

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Pineapple Chilli Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 122 Degrees F (50 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pineapple Flavor

**Product Code:** PA - 7846.5

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.52

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Pineapple Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 122 Degrees F (50 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pineapple Orange Banana Sherbet Flavor

**Product Code:** PI - 17190

**Specific Gravity:** 1.093

**Weight Per Gallon:** 8.65

**Ingredients:** Trethyl Citrate, Vanillin USP

**Physical State:** Liquid

**Odor:** Pineapple Orange Banana Sherbet Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 130 Degrees F (54 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pineapple Peach

**Product Code:** PP - 18366.5

**Specific Gravity:** 1.012

**Weight Per Gallon:** 8.44

**Ingredients:** propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Pineapple Peach

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 122 Degrees F (50 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pineapple Sherbet Ice Cream Flavor

**Product Code:** PA - 8677.5

**Specific Gravity:** 1.150

**Weight Per Gallon:** 9.69

**Ingredients:** Propylene Glycol USP, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic Pineapple Sherbet Ice Cream

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pineapple Sorbet Flavor

**Product Code:** PI - 17188

**Specific Gravity:** 1.124

**Weight Per Gallon:** 9.36

**Ingredients:** Triethyl Citrate

**Physical State:** Liquid

**Odor:** Pineapple Sorbet Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pineapple Upside Down Cake Flavor

**Product Code:** PA - 9815.2

**Specific Gravity:** 1.070

**Weight Per Gallon:** 8.95

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Pineapple Upside Down Cake Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pink Square Candy Flavor

**Product Code:** PI - 17469

**Specific Gravity:** 1.036

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP, Lactic Acid

**Physical State:** Liquid

**Odor:** Strawberry Candy Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pistachio Flavor

**Product Code:** PI - 08769

**Specific Gravity:** 1.000

**Weight Per Gallon:** 8.34

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Pistachio Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 130 Degrees F (54 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pistachio Pudding Flavor

**Product Code:** PP - 12631.1

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.67

**Ingredients:** Propylene Glycol USP, Glycerine, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Pistachio Pudding Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 113 Degrees F (45 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pomegranate (VG) Flavor

**Product Code:** PO - 17503

**Specific Gravity:** 1.248

**Weight Per Gallon:** 10.25

**Ingredients:** Glycerine

**Physical State:** Liquid

**Odor:** Characteristic Pomegranate

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pop Pastry (Blueberry) Flavor

**Product Code:** BP - 12935.1

**Specific Gravity:** 0.980

**Weight Per Gallon:** 8.19

**Ingredients:** Propylene Glycol USP, Glycerine, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Blueberry Breakfast Tart Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 100 Degrees F (38 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pop Pastry (Chocolate) Flavor

**Product Code:** CH - 12935.4

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.52

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol, Glycerine

**Physical State:** Liquid

**Odor:** Chocolate Breakfast Tart Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 118 Degrees F (48 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pop Pastry (Cinnamon Bun) Flavor

**Product Code:** CP - 12935.2

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Cinnamon Breakfast Tart Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 112 Degrees F (44 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pop Pastry (Frosted) Flavor

**Product Code:** FP - 12935.3

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.55

**Ingredients:** Propylene Glycol USP, Glycerine, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Frosted Breakfast Tart Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 126 Degrees F (52 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pop Pastry (Mixed Berries) Flavor

**Product Code:** MP - 12935.5

**Specific Gravity:** 1.010

**Weight Per Gallon:** 8.47

**Ingredients:** Propylene Glycol USP, Glycerine, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Mixed Berry Breakfast Tart Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 109 Degrees F (42 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pop Pastry (Peanut Butter) Flavor

**Product Code:** PP - 12935.6

**Specific Gravity:** 1.000

**Weight Per Gallon:** 8.39

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol, Glycerine

**Physical State:** Liquid

**Odor:** Peanut Butter Breakfast Tart Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 107 Degrees F (40 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pop Pastry (Strawberry) Flavor

**Product Code:** PP - 12271.1

**Specific Gravity:** 1.000

**Weight Per Gallon:** 8.35

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Strawberry Pastry Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 100 Degrees F (38 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pound Cake Flavor

**Product Code:** CU - 17151

**Specific Gravity:** 1.042

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Pound Cake Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Powdered Sugar Flavor

**Product Code:** PS - 12270.2

**Specific Gravity:** 1.060

**Weight Per Gallon:** 8.93

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Powdered Sugar

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pretzel Flavor

**Product Code:** PR - 17587

**Specific Gravity:** 1.031

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Pretzel Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pumpkin Flavor

**Product Code:** PU - 11787.1

**Specific Gravity:** 1.080

**Weight Per Gallon:** 9.10

**Ingredients:** Propylene Glycol, Glycerine, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Pumpkin

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pumpkin Pie Flavor

**Product Code:** PU - 16890

**Specific Gravity:** 1.050

**Weight Per Gallon:** 8.70

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Pumpkin Pie Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Pumpkin Spice Flavor

**Product Code:** PS - 11787.5

**Specific Gravity:** 1.060

**Weight Per Gallon:** 8.90

**Ingredients:** Propylene Glycol USP, Glycerine, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Pumpkin Spice

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 120 Degrees F (49 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Rainbow Candy Flavor

**Product Code:** SK - 17061

**Specific Gravity:** 1.094

**Weight Per Gallon:** 9.11

**Ingredients:** Triethyl Citrate

**Physical State:** Liquid

**Odor:** Rainbow Candy Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 180 Degrees F (82 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Rainbow Sherbet House Flavor

**Product Code:** RS - 9688.1

**Specific Gravity:** 1.080

**Weight Per Gallon:** 9.01

**Ingredients:** Propylene Glycol USP, Ethanol, Water, Glycerol

**Physical State:** Liquid

**Odor:** Rainbow Sherbet Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 84 Degrees F (29 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Rainbow Sherbet Top Shelf Flavor

**Product Code:** RA - 17063

**Specific Gravity:** 1.098

**Weight Per Gallon:** 9.10

**Ingredients:** Triethyl Citrate

**Physical State:** Liquid

**Odor:** Rainbow Sherbet Like

**Diacetyl:** Free

**Usage %:** .5% - 1.5%

**Flash Point:** 130 Degrees F (54 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Raisin Flakes Cereal I Flavor

**Product Code:** RA - 17172

**Specific Gravity:** 1.035

**Weight Per Gallon:** 8.62

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Raisin Flakes Cereal Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Raisin Flakes Cereal II Flavor

**Product Code:** RF - 10541.2

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.71

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerine

**Physical State:** Liquid

**Odor:** Raisin Flakes Cereal Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 113 Degrees F (45 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Raisin Flakes Cereal II Flavor

**Product Code:** RF - 10541.2

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.71

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerine

**Physical State:** Liquid

**Odor:** Raisin Flakes Cereal Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 113 Degrees F (45 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Raspberry (Fresh) Flavor

**Product Code:** RA - 16501

**Specific Gravity:** 1.037

**Weight Per Gallon:** 8.68

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Raspberry Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Raspberry Flavor

**Product Code:** RA - 8677.1

**Specific Gravity:** 1.180

**Weight Per Gallon:** 9.83

**Ingredients:** Propylene Glycol USP, Glycerol

**Physical State:** Liquid

**Odor:** Raspberry Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Raspberry Lemonade Flavor

**Product Code:** RL - 9815.8

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.59

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Characteristic Raspberry Lemonade

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 117 Degrees F (47 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Raspberry Shortcake Flavor

**Product Code:** RA - 17391

**Specific Gravity:** 1.047

**Weight Per Gallon:** 8.61

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Raspberry Shortcake Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 190 Degrees F (88 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Raspberry Sorbet Flavor

**Product Code:** RA - 17186

**Specific Gravity:** 1.132

**Weight Per Gallon:** 9.93

**Ingredients:** Triethyl Citrate

**Physical State:** Liquid

**Odor:** Raspberry Sorbet Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 190 Degrees F (88 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Red Cherry Sour Balls Flavor

**Product Code:** CH - 7672.8

**Specific Gravity:** 0.970

**Weight Per Gallon:** 8.14

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Sour Cherry Candy Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 90 Degrees F (32 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Red Square Candy Flavor

**Product Code:** CH - 17107

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Red Square Candy

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 100 Degrees F (38 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Red Velvet (VG) Flavor

**Product Code:** RE - 17506

**Specific Gravity:** 1.248

**Weight Per Gallon:** 10.10

**Ingredients:** Glycerine

**Physical State:** Liquid

**Odor:** Characteristic Red Velvet Cake

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Rhubarb Crisp Flavor

**Product Code:** RC - 11488.6

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Rhubarb Crisp

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Rice K's Cereal Flavor

**Product Code:** CE - 17027

**Specific Gravity:** 1.046

**Weight Per Gallon:** 8.70

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Rice K's Cereal

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Rice Milk Flavor

**Product Code:** RI - 17204

**Specific Gravity:** 1.035

**Weight Per Gallon:** 8.64

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Rice Milk Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Rice Pudding Flavor

**Product Code:** RI - 17203

**Specific Gravity:** 1.046

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Rice Pudding Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Rootbeer Float

**Product Code:** RF - 32873

**Specific Gravity:** 1.037

**Weight Per Gallon:** 8.64

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Rootbeer Float Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial S'mores Flavor

**Product Code:** SM - 07881

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.70

**Ingredients:** Propylene Glycol USP, Lactic Acid, Kosher OU

**Physical State:** Liquid

**Odor:** S'mores Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Salted Caramel Flavor

**Product Code:** CA - 17171

**Specific Gravity:** 1.035

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Salted Caramel

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

- Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.
- Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.
- Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.
- Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

- Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay
- Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Score (Candy) Toffee Flavor

**Product Code:** TO - 05701

**Specific Gravity:** 1.041

**Weight Per Gallon:** 8.79

**Ingredients:** Propylene Glycol USP, Lactic Acid, Kosher OU

**Physical State:** Liquid

**Odor:** Score Candy Toffee Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Sleep Aid Flavor

**Product Code:** SL - 17155

**Specific Gravity:** 1.036

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Sleep Aid Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Slix Cereal Balls Flavor

**Product Code:** SL - 10541.4

**Specific Gravity:** 1.050

**Weight Per Gallon:** 8.77

**Ingredients:** Propylene Glycol USP, Glycerol, Ethanol

**Physical State:** Liquid

**Odor:** Fruit Cereal Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 118 Degrees F (48 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Snickerdoodle Cookie Flavor

**Product Code:** SN - 10962

**Specific Gravity:** 1.005

**Weight Per Gallon:** 8.41

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Snickerdoodle Cookie Like

**Diacetyl:** Free

**Usage %:** 7% - 10%

**Flash Point:** 130 Degrees F (54 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Soft Cinnamon Flavor

**Product Code:** CI - 13036

**Specific Gravity:** 1.012

**Weight Per Gallon:** 8.26

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Cinnamon Like

**Diacetyl:** Free

**Usage %:** 7% - 10%

**Flash Point:** 140 Degrees F (60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Spearmint Flavor

**Product Code:** SM - 10355.2

**Specific Gravity:** 0.990

**Weight Per Gallon:** 8.32

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Spearmint Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 84 Degrees F (29 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Speckled Flakes Cereal Flavor

**Product Code:** SF - 9258.6

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.56

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Sugar Coated Corn Cereal Like

**Diacetyl:** Free

**Usage %:** 8% - 12%

**Flash Point:** 122 Degrees F (50 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Spumoni Ice Cream Flavor

**Product Code:** SP - 17221

**Specific Gravity:** 1.033

**Weight Per Gallon:** 9.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Spumoni Ice Cream Like

**Diacetyl:** Free

**Usage %:** 1% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Strawberry (Fresh) Flavor

**Product Code:** ST - 05329

**Specific Gravity:** 1.032

**Weight Per Gallon:** 8.64

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Fresh Strawberry Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Strawberry (Ripe) Flavor

**Product Code:** ST - 9327.1

**Specific Gravity:** .950

**Weight Per Gallon:** 7.90

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Characteristic Strawberry

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 82 Degrees F (28 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Strawberry Candy Flavor

**Product Code:** ST - 17106

**Specific Gravity:** 1.049

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Strawberry Candy Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Strawberry Candy Rocks (Fizz) Flavor

**Product Code:** ST - 17341

**Specific Gravity:** 1.014

**Weight Per Gallon:** 8.39

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Strawberry Candy Rocks Fizz Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 190 Degrees F (88 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Strawberry Cheesecake

**Product Code:** SC - 16648.1

**Specific Gravity:** 1.032

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP, Lactic Acid, Diacetyl Replacer OS, ART(#23.28916), Kosher OU, Ethanol

**Physical State:** Liquid

**Odor:** Characteristic Strawberry Cheesecake

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 82 Degrees F (28 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Strawberry Cotton Candy

**Product Code:** SC - 16087.1

**Specific Gravity:** 0.997

**Weight Per Gallon:** 8.25

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Characteristic Strawberry Cotton Candy

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 82 Degrees F (28 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Strawberry Kiwi

**Product Code:** SK - 23602.1

**Specific Gravity:** 0.992

**Weight Per Gallon:** 8.23

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Strawberry Kiwi Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 82 Degrees F (28 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Strawberry Lemonade

**Product Code:** SL - 24070.1

**Specific Gravity:** 0.937

**Weight Per Gallon:** 7.79

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol, Ethanol

**Physical State:** Liquid

**Odor:** Strawberry Lemonade Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Strawberry Milk Flavor

**Product Code:** SM - 11643.1

**Specific Gravity:** .990

**Weight Per Gallon:** 8.23

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Strawberry Milk Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** 100 Degrees F (38 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Strawberry Shortcake Flavor

**Product Code:** ST - 15772

**Specific Gravity:** 1.034

**Weight Per Gallon:** 8.61

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Strawberry Shortcake Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Strawberry Sour Belts Flavor

**Product Code:** ST - 11557

**Specific Gravity:** 1.031

**Weight Per Gallon:** 8.60

**Ingredients:** 98607

**Physical State:** Liquid

**Odor:** Characteristic Sour Strawberry

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Strawberry Swirl

**Product Code:** ST - 17448

**Specific Gravity:** 1.085

**Weight Per Gallon:** 9.05

**Ingredients:** Propylene Glycol USP, Glycerine

**Physical State:** Liquid

**Odor:** Strawberry & Cream Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Strawberry Yogurt

**Product Code:** SY - 16681.1

**Specific Gravity:** 1.036

**Weight Per Gallon:** 8.54

**Ingredients:** Propylene Glycol USP, Lactic Acid, Diacetyl Replacer OS, ART(#23.28916), Ethanol

**Physical State:** Liquid

**Odor:** Characteristic Strawberry Yogurt Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 82 Degrees F (28 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Sugar Butter Cookie Flavor

**Product Code:** SU - 17010

**Specific Gravity:** 1.041

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Sugar Butter Cookie Like

**Diacetyl:** Free

**Usage %:** 7% - 10%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Sugar Cone Flavor

**Product Code:** SC - 11589.1

**Specific Gravity:** 1.050

**Weight Per Gallon:** 8.80

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Sugar Cone Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 140 Degrees F (60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Sweet & Tart Candy Flavor

**Product Code:** SW - 17112

**Specific Gravity:** 0.921

**Weight Per Gallon:** 7.68

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Sweet & Tart Candy

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Sweet Cream Flavor

**Product Code:** CR - 07858

**Specific Gravity:** 1.033

**Weight Per Gallon:** 8.55

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Sweet Cream Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Sweet Cream V.II Flavor

**Product Code:** CR - 15705

**Specific Gravity:** 1.022

**Weight Per Gallon:** 8.54

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Sweet Cream Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 150 Degrees F (66 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Sweet Dates Flavor

**Product Code:** DA - 17161

**Specific Gravity:** 1.034

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Sweet Dates Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Sweet Tea Flavor

**Product Code:** ST - 7842.2

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.71

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Sweet Tea Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 156 Degrees F (69 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Tamarind Flavor

**Product Code:** TA - 09613

**Specific Gravity:** 1.219

**Weight Per Gallon:** 10.00

**Ingredients:** Propylene Glycol USP, H2O

**Physical State:** Liquid

**Odor:** Tamarind Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Tapioca Pudding Flavor

**Product Code:** TA - 17563

**Specific Gravity:** 0.930

**Weight Per Gallon:** 7.75

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Tapioca Pudding

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Thai Tea Flavor

**Product Code:** TH - 17205

**Specific Gravity:** 1.025

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP, Mate Absolute

**Physical State:** Liquid

**Odor:** Thai Tea Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Tiramisu Flavor

**Product Code:** TI - 11544

**Specific Gravity:** 1.018

**Weight Per Gallon:** 8.50

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Tiramisu Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Toasted Flakes Cereal Flavor

**Product Code:** FL - 17450

**Specific Gravity:** 1.082

**Weight Per Gallon:** 9.00

**Ingredients:** Propylene Glycol USP, Glycerine

**Physical State:** Liquid

**Odor:** Toasted Flakes Cereal Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Toasted Marshmallow (PG) Flavor

**Product Code:** MA - 17505

**Specific Gravity:** 1.248

**Weight Per Gallon:** 10.20

**Ingredients:** Glycerine

**Physical State:** Liquid

**Odor:** Toasted Marshmallow Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 190 Degrees F (88 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Tropical Rainbow Candy

**Product Code:** TR - 40644.5

**Specific Gravity:** 1.007

**Weight Per Gallon:** 8.39

**Ingredients:** Propylene Glycol USP, Kosher OU, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Tropical Rainbow Candy Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 122 Degrees F (50 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial USA Mix Tobacco Flavor

**Product Code:** PT - 06161.2

**Specific Gravity:** 1.090

**Weight Per Gallon:** 9.20

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Characteristic Tobacco

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Vanilla Cola Flavor

**Product Code:** VC - 14816

**Specific Gravity:** 1.033

**Weight Per Gallon:** 8.612

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Vanilla Cola Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 130 Degrees F (54 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Vanilla Cream Flavor

**Product Code:** VA - 10729

**Specific Gravity:** 1.043

**Weight Per Gallon:** 8.91

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Vanilla Cream Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Vanilla Cupcake Flavor

**Product Code:** CA - 15228

**Specific Gravity:** 1.068

**Weight Per Gallon:** 8.70

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Vanilla Cake

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 100 Degrees F (38 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Vanilla Custard

**Product Code:** VC - 24862

**Specific Gravity:** 1.034

**Weight Per Gallon:** 8.62

**Ingredients:** Propylene Glycol USP, Kosher OU

**Physical State:** Liquid

**Odor:** Characteristic Vanilla Custard

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Vanilla Custard Cheesecake Flavor

**Product Code:** VC - 32183

**Specific Gravity:** 1.044

**Weight Per Gallon:** 8.69

**Ingredients:** Propylene Glycol USP, Lactic Acid, Diacetyl Replacer OS, ART(#23.28916), Kosher OU

**Physical State:** Liquid

**Odor:** Vanilla Custard Cheesecake Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 205 Degrees F (96 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Vanilla Frosting Flavor

**Product Code:** VF - 9754.1

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.53

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Vanilla Frosting Like

**Diacetyl:** Free

**Usage %:** 7% - 9%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Vanilla Ice Cream OOO Blend I

**Product Code:** VA - 17201 I

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Vanilla Ice Cream Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Vanilla Ice Cream OOO Blend II

**Product Code:** VA - 17201 II

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Vanilla Ice Cream Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Vanilla Ice Cream OOO Blend III

**Product Code:** VA - 17201

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Vanilla Ice Cream Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 190 Degrees F (88 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Vanilla Strawberry Honey Flavor

**Product Code:** VA - 13768

**Specific Gravity:** 1.044

**Weight Per Gallon:** 8.67

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Vanilla Strawberry Honey Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Vanilla Tobacco Flavor

**Product Code:** VT - 8472.3

**Specific Gravity:** 1.130

**Weight Per Gallon:** 9.50

**Ingredients:** Propylene Glycol USP, Glycerol

**Physical State:** Liquid

**Odor:** Vanilla Tobacco Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Vanilla Wafer Flavor

**Product Code:** VW - 12271.3

**Specific Gravity:** 0.990

**Weight Per Gallon:** 8.26

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Vanilla Wafer Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 102 Degrees F (39 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Waffle (Belgian) Flavor

**Product Code:** WA - 17009

**Specific Gravity:** 1.037

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Belgian Waffle Like

**Diacetyl:** Free

**Usage %:** 8% - 10%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Watermelon (Candy) Flavor

**Product Code:** WC - 7924.4

**Specific Gravity:** 1.130

**Weight Per Gallon:** 9.42

**Ingredients:** Ethanol, Glycerol

**Physical State:** Liquid

**Odor:** Watermelon Candy Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 76 Degrees F (24 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Watermelon (Fresh) Flavor

**Product Code:** WA - 06971

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP, H2O

**Physical State:** Liquid

**Odor:** Watermelon Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Watermelon Bang Flavor

**Product Code:** WA - 17468

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Watermelon Bang Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Watermelon Candy Rocks (Fizz) Flavor

**Product Code:** WA - 17140

**Specific Gravity:** 1.015

**Weight Per Gallon:** 8.39

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Watermelon Candy Rocks Fizz Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 150 Degrees F (66 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Watermelon Flavor

**Product Code:** WA - 11167

**Specific Gravity:** 1.022

**Weight Per Gallon:** 8.55

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Watermelon Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Whipped Cream Flavor

**Product Code:** CR - 17652

**Specific Gravity:** 0.993

**Weight Per Gallon:** 8.27

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Whipped Cream Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 110 Degrees F (43 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Whipped Cream Flavor

**Product Code:** CR - 17652

**Specific Gravity:** 0.993

**Weight Per Gallon:** 8.27

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Whipped Cream Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 110 Degrees F (43 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial White Chocolate Kip Kap Flavor

**Product Code:** KK - 12271.2

**Specific Gravity:** 0.970

**Weight Per Gallon:** 8.11

**Ingredients:** Propylene Glycol USP Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic White Chocolate Kip Kap

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 122 Degrees F (50 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial White Chocolate Mocha Flavor

**Product Code:** WM - 12034.1

**Specific Gravity:** 1.010

**Weight Per Gallon:** 8.48

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** White Chocolate Mocha Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 102 Degrees F (39 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial White Tea Flavor

**Product Code:** TE - 17040

**Specific Gravity:** 1.037

**Weight Per Gallon:** 8.58

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** White Tea Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Wild Berry Rainbow Candy Flavor

**Product Code:** MF - 17005

**Specific Gravity:** 1.029

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Wild Berry Rainbow Candy Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Wild Cherry Flavor

**Product Code:** CH - 05449

**Specific Gravity:** 1.026

**Weight Per Gallon:** 8.53

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Cherry

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 140 Degrees F (60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Yellow Square Candy Flavor

**Product Code:** LE - 17573

**Specific Gravity:** 0.926

**Weight Per Gallon:** 7.65

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Yellow Square Candy Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural & Artificial Yogurt (Plain) Flavor

**Product Code:** YO - 07354

**Specific Gravity:** 1.058

**Weight Per Gallon:** 8.70

**Ingredients:** Propylene Glycol USP, Lactic Acid, Diacetyl Replacer OS, ART(#23.28916)

**Physical State:** Liquid

**Odor:** Yogurt Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural Apple (Gala) Flavor

**Product Code:** AP - 17007

**Specific Gravity:** 1.020

**Weight Per Gallon:** 8.49

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Sweet Apple Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 190 Degrees F (87 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Apple Juice Flavor WONF

**Product Code:** AP - 17484

**Specific Gravity:** 1.013

**Weight Per Gallon:** 8.40

**Ingredients:** H<sub>2</sub>O, Glycerine, Citric Acid

**Physical State:** Liquid

**Odor:** Apple Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 90 Degrees F (32 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Bergamot Flavor

**Product Code:** BE - 101977

**Specific Gravity:** 0.897

**Weight Per Gallon:** 7.45

**Ingredients:** H2O

**Physical State:** Liquid

**Odor:** Characteristic Orange

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Black Cherry Flavor

**Product Code:** CH - 10414

**Specific Gravity:** 1.038

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Black Cherry

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Black Tea Flavor

**Product Code:** BT - 8033.1

**Specific Gravity:** 1.040

**Weight Per Gallon:** 8.75

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic of Black Tea

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Blueberry (Hard Candy) Flavor

**Product Code:** BB - 0131

**Specific Gravity:** 1.050

**Weight Per Gallon:** 8.85

**Ingredients:** Propylene Glycol USP, Ethanol, Glycerol, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Blueberry Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 82 Degrees F (28 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

- Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.
- Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.
- Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.
- Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

- Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay
- Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Cherry (Hard Candy) Flavor

**Product Code:** CH - 1243.2

**Specific Gravity:** 0.950

**Weight Per Gallon:** 7.90

**Ingredients:** Ethanol, Citric Acid, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Cherry Candy Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 81 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Chocolate Flavor

**Product Code:** CF - 5127.1

**Specific Gravity:** 1.010

**Weight Per Gallon:** 8.41

**Ingredients:** Propylene Glycol USP, Ethanol, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Characteristic of Chocolate

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 126 Degrees F (52 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural Cinnamon Emulsion

**Product Code:** CI - 16753

**Specific Gravity:** 1.032

**Weight Per Gallon:** 8.60

**Ingredients:** Water, Glycerine 99.5% USP, Thixogum "S" (Arabic & Xanthan Gums), Polysorbate 80, Citric Acid, Sodium Benzoate, Mercol Gum FA

**Physical State:** Liquid

**Odor:** Cinnamon Like

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Clove Flavor

**Product Code:** CL - 14433

**Specific Gravity:** 1.049

**Weight Per Gallon:** 8.76

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Clove Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Coffee (Black) Flavor

**Product Code:** CF - 10694

**Specific Gravity:** 1.138

**Weight Per Gallon:** 9.60

**Ingredients:** Propylene Glycol USP, Citric Acid, Sodium Benzoate, Potassium Sorbate, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Characteristic Black Coffee

**Diacetyl:** Free

**Usage %:** .5% - 1.5%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## **Toxicology**

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## **First Aid Measures**

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Concord Grape Flavor

**Product Code:** GR - 14707

**Specific Gravity:** 1.034

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Concord Grape Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 200 Degrees F (93 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Dutch Chocolate Flavor

**Product Code:** CH - 9964.1

**Specific Gravity:** 1.140

**Weight Per Gallon:** 9.60

**Ingredients:** Glycerol, Ethanol

**Physical State:** Liquid

**Odor:** Dutch Chocolate Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 135 Degrees F (57 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Grape Soda Flavor

**Product Code:** GR - 1243.4

**Specific Gravity:** 0.960

**Weight Per Gallon:** 7.97

**Ingredients:** Ethanol, Citric Acid, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Grape Soda Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 86 Degrees F (30 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Green Apple (Candy) Flavor

**Product Code:** GC - 5372.1

**Specific Gravity:** 0.970

**Weight Per Gallon:** 8.10

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic of Green Apple

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 82 Degrees F (28 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

#### Eye & Face Protection:

Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

#### Hands & Feet Protection:

Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Kiwi Flavor

**Product Code:** KI - 14275

**Specific Gravity:** 1.033

**Weight Per Gallon:** 8.55

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Kiwi Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural Lemon Flavor

**Product Code:** LE - 14404

**Specific Gravity:** 0.808

**Weight Per Gallon:** 6.80

**Ingredients:** Ethanol

**Physical State:** Liquid

**Odor:** Characteristic Lemon Flavor

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 61 Degrees F (16 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Lemon Round Candy Flavor

**Product Code:** LE - 0242.2

**Specific Gravity:** 0.970

**Weight Per Gallon:** 8.07

**Ingredients:** Propylene Glycol USP, Ethanol, Sodium Chloride, H<sub>2</sub>O

**Physical State:** Liquid

**Odor:** Lemon Candy Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 91 Degrees F (33 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Lemonade Flavor

**Product Code:** LE - 14743

**Specific Gravity:** 0.924

**Weight Per Gallon:** 7.68

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Lemonade Flavor

**Diacetyl:** Free

**Usage %:** 1% - 4%

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Menthol Flavor

**Product Code:** ME - 17382

**Specific Gravity:** 1.023

**Weight Per Gallon:** 7.62

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Menthol Like

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 190 Degrees F (88 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Orange Juice Flavor

**Product Code:** OR - 14190

**Specific Gravity:** 0.897

**Weight Per Gallon:** 7.45

**Ingredients:** H2O

**Physical State:** Liquid

**Odor:** Characteristic Orange Juice

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Orange Naval Flavor

**Product Code:** OR - 17090

**Specific Gravity:** 0.910

**Weight Per Gallon:** 7.58

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Orange Naval

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Orange Popsicle Flavor

**Product Code:** OR - 16521

**Specific Gravity:** 0.921

**Weight Per Gallon:** 7.60

**Ingredients:** Propylene Glycol USP, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Orange Popsicle Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 68 Degrees F (20 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Peppermint Flavor

**Product Code:** PE - 11021

**Specific Gravity:** 1.030

**Weight Per Gallon:** 8.60

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Peppermint

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** 194 Degrees F (90 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!





## SAFETY DATA SHEET

**Product Name:** Natural Pink Lemonade Flavor

**Product Code:** LE - 15964

**Specific Gravity:** 0.921

**Weight Per Gallon:** 7.68

**Ingredients:** Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Pink Lemonade

**Diacetyl:** Free

**Usage %:** 1% - 4%

**Flash Point:** 80 Degrees F (27 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Plain Yogurt (Version II)

**Product Code:** PY - 8453.1

**Specific Gravity:** 0.990

**Weight Per Gallon:** 8.30

**Ingredients:** Propylene Glycol USP, Ethanol

**Physical State:** Liquid

**Odor:** Yogurt Like

**Diacetyl:** Free

**Usage %:** 5% - 7%

**Flash Point:** 84 Degrees F (29 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Raspberry (Hard Candy) Flavor

**Product Code:** RA - 4799.1

**Specific Gravity:** 1.060

**Weight Per Gallon:** 8.84

**Ingredients:** Propylene Glycol USP, H<sub>2</sub>O, Ethyl Alcohol

**Physical State:** Liquid

**Odor:** Characteristic Raspberry

**Diacetyl:** Free

**Usage %:** 1% - 3%

**Flash Point:** >140 Degrees F (>60 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.





## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Spiced Apple Cider Flavor

**Product Code:** AP - 16756

**Specific Gravity:** 1.029

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Spiced Apple Cider Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 185 Degrees F (85 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber

NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Sugar Plum Flavor

**Product Code:** SP - 13777

**Specific Gravity:** Not Determined

**Weight Per Gallon:** 8.70

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Sugar Plum Like

**Diacetyl:** Free

**Usage %:** 3% - 5%

**Flash Point:** 160 Degrees F (70 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Natural Tangerine Flavor

**Product Code:** TA - 11006

**Specific Gravity:** 1.023

**Weight Per Gallon:** 7.68

**Ingredients:** Citric Acid, Sodium Benzoate, H<sub>2</sub>O, Polysorbate 80, Gum Tragacanth "W", Mercol Gum FA

**Physical State:** Liquid

**Odor:** Tangerine Like

**Diacetyl:** Free

**Usage %:** 15% - 20%

**Flash Point:** 102 Degrees F (3 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.





## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Propylene Glycol USP Grade

**Product Code:** RM - P0005

**Specific Gravity:** 1.035

**Weight Per Gallon:** 8.66

**Ingredients:** Propylene Glycol USP

**Physical State:** Liquid

**Odor:** Characteristic Propylene Glycol

**Diacetyl:** Free

**Usage %:**

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!



## SAFETY DATA SHEET

**Product Name:** Sucralose 15% PG

**Product Code:** SU - 17470

**Specific Gravity:** 1.065

**Weight Per Gallon:** 8.65

**Ingredients:** Propylene Glycol, Sucralose

**Physical State:** Liquid

**Odor:** Sweet Like

**Diacetyl:** Free

**Usage %:** .5% - 3%

**Flash Point:** 210 Degrees F (99 Degrees C)

**Solubility in water (g/L):** Water Soluble

**UN Number:** 1197

**Packaging Group:** III

**UN Proper Shipping Name:** Extracts, Flavoring, Liquid

**Recommended Storage:** Store in original containers in approved liquid storage area

### Emergency Telephone Number

PERS (24HR Emergency) 800-633-8253

### Exposure Controls

**Eye & Face Protection:** Safety glasses with side shields, chemical goggles, contact lenses may pose a special hazard; soft contact lenses may absorb concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Hands & Feet Protection:** Wear chemical protective gloves e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber  
NOTE: The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.



## Toxicology

**Inhaled:** The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models) Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally distress.

**Ingestion:** <1.5 g/L Mild - Impaired vision, co-ordination and reaction time; emotional instability.  
1.5-3.0 g/L Moderate - Slurred speech, confusion, incoordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence, slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.

**Skin Contact:** Skin contact is not thought to have harmful effect (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. A single prolonged exposure is not likely to result in the material causing harm.

**Eyes:** Direct contact of the eye with ethanol (alcohol) may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness and conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment

## First Aid Measures

**Eye Contact:** Wash out immediately with fresh running water. Seek medical attention without delay

**Skin Contact:** Immediately remove all contaminated clothing, footwear and seek medical attention in event of irritation.



## **Firefighting Measures**

Extinguishing Media: Alcohol stable foam. Dry Chemical Powder. BCF (where regulations permit). Carbon Dioxide. Water spray or fog-large fires only.

## **Accidental Measures**

Minor Spills: Remove all ignition sources. Clean up all spills immediately. Wipe up.

Major Spills: Clear area of personnel and move upwind. Consider evacuation (or protect in place) May be violently or explosively reactive.

## **Handling & Precautions**

Safe Handling: Use in well ventilated areas. Prevent concentrations in hollows and sumps. Wear protective clothing when risk of overexposure occurs.

## **Storage:**

Suitable Container: Packing as supplied by manufacturer. For materials with a viscosity of at least 2680 cST. Plastic containers may only be used if approved for flammable liquid.

Storage Incompatibility: Glycerol – Is able to polymerize above 145C. Glycols and their ethers undergo violent decomposition in contact with 70% per chloric acid. Alcohols – should not be heated above 49 degrees C when in contact with aluminum equipment. Reacts possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.

## **Disposal**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations!