

SAFETY DATA SHEET

1. Identification

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|--|--|
| Product Identifier | Strawberry Kiwi |
| Other means of Identification | Flavor |
| Recommended use | Not available |
| Recommended restriction | Not known |
| Manufacturer/Importer/Supplier/Distributor Information: | |
| Manufacturer Company Name | Alchem Flavours |
| Address | 60 Minuk Acres, Scarborough, ON, M1E 4Y6 |
| Telephone | Not available |
| E-mail | Not available |
| Emergency phone number | Not available |
| Supplier | See above. |

2. Hazard Identification

| | | |
|------------------------------|--------------------|------------|
| Physical Hazards | Not classified | |
| Health Hazards | Skin Sensitization | Category 1 |
| Environmental Hazards | Not Classified | |



| | |
|---------------------------------|---|
| Label elements | |
| Signal word | Warning |
| Hazard statement | May cause an allergic skin reaction. |
| Precautionary statement | |
| Prevention | Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. |
| Response | IF on SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. |
| Store | None. |
| Disposal | Dispose container in accordance with local, regional, national and international regulation. |
| Other Hazards | None known. |
| Supplemental Information | None. |

SAFETY DATA SHEET

3. Composition/Information on Ingredients

Mixtures

| Chemical name | Common name and Synonyms | CAS number | % |
|------------------|--------------------------|------------|-----------|
| Maltol | | 118-71-8 | 0.1-1*% |
| Ethyl Maltol | | 4940-11-8 | 0.5-1.5*% |
| Acetic Acid | | 64-19-7 | 0.1-1*% |
| Ethyl Acetate | | 141-78-6 | 0.1-1*% |
| Propylene Glycol | | 57-55-6 | 80-100* % |

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments *CANADA GHS: The exact percentage(concentration) of composition has been withheld
As a trade secret.

4. First-Aid Measures

| | |
|---|---|
| Inhalation | If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. |
| Skin Contact | Wash with plenty of water. If skin irritation /rash occur: Get medical attention. Take off contaminated clothing and wash it before reuse. |
| Eye Contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Ingestion | Immediately call a POISON CENTER or doctor. Rinse mouth. Do not induce vomiting. |
| Most important Symptoms/ Effects acute and delayed | Symptoms may include eye irritation, tearing, redness, swelling. May cause an allergic skin reaction: Dermatitis, Rash. |
| Indication of immediate medical attention and special treatment needed | Symptoms may be delayed. |
| General Information | If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Keep out of reach of children. |

5. Fire-Fighting Measures

| | |
|--|---|
| Suitable extinguishing media | Alcohol resistant foam. Dry powder. Carbon dioxide. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Hazardous Combustion products | May include and are not limited to Oxides of carbon. |
| Special protective equipment and Precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn. |
| Fire fighting equipment/instructions | Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials |
| General Fire Hazards | Flammable liquid and vapor. |

SAFETY DATA SHEET

6. Accidental Release Measures

| | |
|--|--|
| Personal precautions, Protective equipment and Emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination. For waste disposal, see the section 13 of SDS. |
| Environmental precautions | Do not discharge into lakes, streams, ponds or public waters. |

7. Handling and Storage

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|---|--|
| Precautions for safe handling | Avoid contact with eyes, skin and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Pregnant or breastfeeding women must not handle this product. Avoid prolonged exposure. Observe good industrial hygiene practices. Wash hands thoroughly after handling. |
| Conditions for safe storage, including any compatibilities | Store in tightly closed container. Store away from incompatible material (see section 10 of the SDS). Keep out of reach of children. |

8. Exposure Controls/ Personal Protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Material | Type | Value |
|------------------------------|------|--------------------------------|
| ACETIC ACID (CAS 64-19-7) | PEL | 25 mg/m ³ 10 ppm |
| ETHYL ACETATE (CAS 141-78-6) | PEL | 1400 mg/m ³ |

US. ACGIH Threshold Limit Values

| Material | Type | Value |
|------------------------------|------|---------|
| ACETIC ACID (CAS 64-19-7) | STEL | 15 ppm |
| | TWA | 10 ppm |
| ETHYL ACETATE (CAS 141-78-6) | TWA | 400 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Material | Type | Value |
|------------------------------|------|-----------------------------------|
| ETHYL ACETATE (CAS 141-78-6) | TWA | 1400 mg/m ³ 400 ppm |
| ACETIC ACID (CAS 64-19-7) | STEL | 37 mg/m ³ 15 ppm |
| | TWA | 25 mg/m ³ 10 ppm |

Canada. Ontario OELs (Control of Exposure to Biological or Chemical Agents)

SAFETY DATA SHEET

| Material | Type | Value |
|------------------------------|------|----------------------------------|
| ETHYL ACETATE (CAS 141-78-6) | TWA | 400 ppm 0.5 mg/m ³ |

Appropriate Engineering Controls Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------------|--|
| Eye/Face protection | Wear safety glasses with side shields. |
| Skin protection | |
| Hand protection | Rubber gloves. Confirm with a reputable supplier first. |
| Other | As required by employer code. |
| Respiratory protection | Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2). |
| Thermal hazards | Not applicable. |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practises. Wash hands before breaks and immediately after handling the product. |

9. Physical and Chemical Properties

| | |
|---|---|
| Appearance | Liquid |
| Physical state | Liquid |
| Form | Liquid |
| Colour | Colour vary from colorless to light yellow |
| Odour | Generally the odour reflects the flavour on the manufacturing label |
| Odour Threshold | Not available |
| pH | Not available |
| Melting/Freezing point | Not available |
| Initial boiling point and range | Not available |
| Flash point | Not available |
| Evaporation rate | Not available |
| Flammability (solid, gas) | Not available |
| Upper/Lower Flammability or Explosive Limits | |
| Flammability limit – lower (%) | Not available |
| Flammability limit – upper (%) | Not available |
| Explosive limit – lower (%) | Not available |
| Explosive limit – upper (%) | Not available |
| Vapour pressure | Not available |
| Vapour density | Not available |
| Relative density | Not available |
| Solubility(ies) | |
| Solubility (water) | Soluble or miscible in water |
| Partition coefficient(n-octanol/water) | Not available |
| Auto-Ignition Temperature | Product is not self-igniting |

SAFETY DATA SHEET

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|----------------------------------|---------------|
| Decomposition temperature | Not available |
| Viscosity | Not available |
| Other Information | |
| Explosive properties | Not explosive |
| Oxidizing properties | Not oxidizing |

10. Stability and Reactivity

| | |
|---|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of Hazardous Reactions | Hazardous polymerization does not occur. |
| Conditions to avoid | Keep away from heat, hot surfaces, sparks, open flames and ignition sources. Do not mix with other chemicals. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | May include and are not limited to: Oxides of carbon |

11. Toxicological Information

Information on likely routes of exposure

| | |
|---------------------|--------------------------------------|
| Inhalation | Not available. |
| Skin contact | May cause an allergic skin reaction. |
| Eye contact | Not available. |
| Ingestion | Not available. |

| Components | Species | Test Results |
|-------------------|----------------|---------------------|
|-------------------|----------------|---------------------|

Acetic Acid (CAS 64-19-7)

Acute

Oral

LD50

Rat

3450 mg/kg

Ethyl Acetate (CAS 141-78-6)

Acute

Oral

LD50

Rat

5620 mg/kg

Ethyl Maltol (CAS 4940-11-8)

Acute

Oral

LD50

Rat

1150 mg/kg

Maltol (CAS 118-718-8)

Acute

Oral

LD50

Rat

1440 mg/kg

Skin corrosion/ irritation

Prolonged skin contact cause temporary irritation.

Exposure minutes

Not available.

Erythema value

Not available.

SAFETY DATA SHEET

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|--|--|
| Oedema value | Not available. |
| Serious eye damage/eye irritation | Not available. |
| Corneal opacity value | Not available. |
| Iris lesion value | Not available. |
| Conjunctival reddening value | Not available. |
| Conjunctival oedema value | Not available. |
| Recover days | Not available. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | Not a respiratory sensitizer. |
| Skin sensitization | May cause an allergic skin reaction. |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Carcinogenicity | Not classified. |
| Specific target organ toxicity- Single exposure | Not classified. |
| Specific target organ toxicity- Repeated exposure | Not classified. |
| Aspiration hazard | Not an aspiration hazard. |
| Chronic effects | Prolonged inhalation may be harmful. |

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

| Components | Species | Test Result |
|---------------------------------------|--|------------------------------------|
| Acetic Acid (CAS 64-19-7) | | |
| Aquatic | | |
| Crustacea | EC50 Water flea (<i>Daphnia magna</i>) | 65 mg/l, 48 hours |
| Fish | LC50 Bluegill (<i>Lepomis macrochirus</i>) | 75 mg/l, 96 hours |
| Ethyl Acetate (CAS 141-78-6) | | |
| Aquatic | | |
| Fish | LC50 Indian catfish (<i>Heteropneustes fossilis</i>) | > 200.32 - < 225.42 mg/L, 96 hours |
| Fish | LC50 <i>Oncorhynchus mykiss</i> (Rainbow trout) | 350-600 mg/L, 96 hours |
| Daphnia & other aquatic invertebrates | | |
| | EC50 <i>Daphnia magna</i> (Water flea) | 2300-3090 mg/L, 96 hours |
| | LC50 <i>Daphnia magna</i> (Water flea) | 560 mg/L, 48 hours |
| Algae | | |
| | EC50 Algae | 4300 mg/L, 24 hours |
| | EC50 <i>Selenastrum</i> | 1800-3200 mg/L, 72 hours |
| Bio accumulative potential | No data available | |
| Mobility in Soil | Not available. | |
| Mobility in General | Not available. | |

SAFETY DATA SHEET

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

| | |
|---|--|
| Disposal Instructions | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Local Disposal Regulations | Dispose in accordance with all applicable regulations. |
| Hazardous Waste Code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues/ unused products | Empty containers/liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal Instructions). |
| Contaminated Packaging | Since emptied containers may retain product inside, follow label warnings even after container is emptied. Empty containers should be taken to approved waste handling site for recycling or disposal. |

14. Transport Information

General

Canada: TDG Proof of classification: Classification Method: Classified as per Part 2, Sections 2.1-2.8 of the Transport of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

Transportation of Dangerous Goods (TDG – Canada)

Basic shipping requirements:

| | |
|-----------------------------|--------------------------|
| UN Number | UN1993 |
| Proper Shipping Name | FLAMMABLE LIQUID, N.O.S. |
| Technical Name | Ethanol |
| Hazard Class | 3 |
| Packing Group | III |
| Special Provisions | 16, 150 |

15. Regulatory Information

Canadian Federal Regulations This product has been classified in accordance with the hazard criteria of the HPR and SDS contains all the information required by the HPR.

Canada NPRI VOCs with Additional Reporting Requirements: Mass Reporting Threshold/ Identification Number

| | |
|--|----------------|
| Export Control List (CEPA 1999, Schedule 3) | Not listed. |
| Greenhouse Gases | Not listed. |
| Precursor Control Regulated | Not regulated. |

WHMIS Controlled

International Regulations Controlled

Inventory status

| Country(s) or Region | Inventory Name | on Inventory (Yes/No)* |
|-----------------------------|--------------------------------|-------------------------------|
| Canada | Domestic Substances List (DSL) | No |

SAFETY DATA SHEET

Canada

Non- Domestic Substances List (NDSL)

No

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

16. Other Information

Abbreviations and Acronyms:

GHS – Globally Harmonizes System on classification and labeling

USP – United States Pharmacopeia

OSHA – Occupational Safety and Health Administration

OEL – Occupational Exposure Limit

NIOSH – National Institute of Occupational Safety and Health

DSL – Domestic Substances List Canada

TSCA – Toxic Substances Control Act - USA

RCRA – Resource Conservation and Recovery Act

CERCLA – Comprehensive Environmental Response, Compensation and Liability Act

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Version No.: 01

Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge or was obtained from sources which we believe are reliable. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal and is provided without any warranty regarding its correctness. The information cannot be transferred to other products. In the case of mixing the product with other products, or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. For the above-mentioned reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out or in any way connected with the handling, storage, use or disposal of the product.