

SAFETY DATA SHEET

1. Identification

Product Identifier Strawberry

Other means of Identification Flavor

Recommended use Not available

Recommended restriction Not known

Manufacturer/Importer/Supplier/Distributor Information:

Manufacturer Company Name RENAISSANCE FLAVORS INTERNATIONAL

Address 120 Nashdene Road, Scarborough, ON, Canada M1V 2W3

Telephone Not available

E-mail Not available

Emergency phone number Not available

Supplier See above.

2. Hazard Identification

Physical Hazards Flammable Liquids Category 3

Health Hazards Not classified

Environmental Hazards Not Classified



Label elements

Signal word Warning

Hazard statement Flammable liquid and vapour.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/ hot surfaces. – No smoking.

Keep container tightly closed.

Ground/Bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/eye protection/face protection.

Response In case of fire: Use appropriate media for the extinction.

Store Store in a well-ventilated place. Keep cool.

Disposal Dispose container in accordance with local, regional, national and international regulation.

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Other Hazards None known.

Supplemental Information None.

3. Composition/Information on Ingredients

Mixtures

Chemical name	Common name and Synonyms	CAS number	%
Sucralose		56038-13-2	1-5*%
Malic Acid		617-48-1	0.1-1*%
Ethyl Alcohol		64-17-5	10-30*%
Butyric Acid		107-92-6	0.1-1*%
Benzyl Butyrate		103-37-7	0.1-1*%
Propylene Glycol		57-55-6	60-80* %

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.

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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.

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

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
ETHYL ALCOHOL (CAS 64-17-5)	TWA	1000 ppm
	TWA	1900 mg/m ³

US. ACGIH Threshold Limit Values

Material	Type	Value
ETHYL ALCOHOL (CAS 64-17-5)	STEL	1000 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Material	Type	Value
ETHYL ALCOHOL (CAS 64-17-5)	IDLH	3300 ppm
	TWA	1000 ppm
	TWA	1900 mg/m ³

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Material	Type	Value
ETHYL ALCOHOL (CAS 64-17-5)	TWA	1000 ppm
		1880 mg/m ³

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Canada. British Columbia OELs (Occupational Exposure Limits for Chemical substances, Occupational Health and Safety Regulations 296/97, as amended)

Material	Type	Value
ETHYL ALCOHOL (CAS 64-17-5)	STEL	1000 ppm

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety and Health Act)

Material	Type	Value
ETHYL ALCOHOL (CAS 64-17-5)	STEL	1000 ppm

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

Material	Type	Value
ETHYL ALCOHOL (CAS 64-17-5)	STEL	1000 ppm

Canada. Quebec OELs (Ministry of Labor- Regulation respecting Occupational Health and Safety)

Material	Type	Value
ETHYL ALCOHOL (CAS 64-17-5)	STEL	1000 ppm

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Material	Type	Value
ETHYL ALCOHOL (CAS 64-17-5)	15-minute	1250 ppm
	8-hour	1000 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

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

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Melting/Freezing point	Not available
Initial boiling point and range	Not available
Flash point	26 C
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
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	Not available
Eye contact	Not available.
Ingestion	Not available.

Components	Species	Test Results
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Butyric Acid (CAS 107-92-6)

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Acute			
<i>Oral</i>			
LD50	Rat		1630 mg/kg
Ethyl Alcohol (CAS 64-17-5)			
Acute			
<i>Oral</i>			
LD50	Dog		5.5g/kg, HSDB
	Guinea Pig		5600 mg/kg, HSDB
	Monkey		6000 mg/kg, ECHA
	Mouse		10,500 mL/kg, ECHA
			3450 mg/kg, SAX
	Pig		>5000 mg/kg, ECHA
	Rat		10,470 mg/kg, ECHA
			7800 mL/kg, ECHA
Malic Acid (CAS 617-48-1)			
Acute			
<i>Oral</i>			
LD50	Rat		1600 mg/kg
Skin corrosion/ irritation	Not available.		
Exposure minutes	Not available.		
Erythema value	Not available.		
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	Not available.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	May cause cancer. See below.		
Canada – Manitoba OELs: carcinogenicity			
Ethyl Alcohol (CAS 64-17-5)	Confirmed animal carcinogen with unknown relevance to humans.		
IARC Monographs. Overall Evaluation of Carcinogenicity			
Ethyl Alcohol (CAS 64-17-5)	Volume 44, Volume 96, Volume 100E		
	Volume 96, Volume 100E		
Reproductive Toxicity	Not available.		
Specific target organ toxicity- Single exposure	Not classified.		
Specific target organ toxicity- Repeated exposure	Not classified.		

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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
Ethyl Alcohol (CAS 64-17-5)		
Aquatic		
Algae	EC50 Chlorella vulgaris	275 mg/l, 72 hours
Crustacea	EC50 Water flea	10800 mg/l, 24 hours 9268 mg/l, 48 hours
Fish	LC50 Fathead minor (Pimephales promelas)	14200 mg/l, 96 hours
Microtox	EC50 Photobacterium phosphoreum	35470 mg/l, 5 minutes 34634 mg/l, 30 minutes

Persistence and Degradability No data is available on degradability of any ingredients in the mixture.

Bio accumulative potential No data available

Mobility in Soil Not available.

Mobility in General Not available.

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

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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
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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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

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