

SAFETY DATA SHEET

1. Identification

Product Identifier	Strawberry Pineapple Orange
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	Not classified	
Health Hazards	Skin Sensitization	Category 1A
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.

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3. Composition/Information on Ingredients

Mixtures

Chemical name	Common name and Synonyms	CAS number	%
Maltol		118-71-8	1-5*%
Ethyl Maltol		4940-11-8	1-5*%
Butyl Acetate		123-86-4	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.

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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
BUTYL ACETATE (CAS 123-86-4)	PEL	710 mg/m ³ 150 ppm
ETHYL ACETATE (CAS 141-78-6)	PEL	1400 mg/m ³

US. ACGIH Threshold Limit Values

Material	Type	Value
BUTYL ACETATE (CAS 123-86-4)	STEL	150 ppm
	TWA	50 ppm
ETHYL ACETATE (CAS 141-78-6)	TWA	400 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Material	Type	Value
BUTYL ACETATE (CAS 123-86-4)	STEL	950 mg/m ³ 200 ppm
	TWA	710 mg/m ³ 150 ppm
ETHYL ACETATE (CAS 141-78-6)	TWA	1400 mg/m ³ 400 ppm

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

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

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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	May cause an allergic skin reaction.
Eye contact	Not available.
Ingestion	Not available.

Components	Species	Test Results
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
Methyl Cinnamate (CAS 103-26-4)		
Acute		
Oral LD50	Rat	2610 mg/kg
Skin corrosion/ irritation	Prolonged skin contact cause temporary irritation.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Not available.	
Corneal opacity value	Not available.	

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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
Butyl Acetate (CAS 123-86-4)		
Aquatic		
Fish	LC50 Fathead minnow (<i>Pimephales promelas</i>)	> 17 - < 19 mg/l, 96 hours
<i>Acute</i>		
Algae	EC50 Green algae (<i>Desmodesmus subspicatus</i>)	674.7 mg/l, 72 hours
Crustacea	LC50 Water flea (<i>Daphnia magna</i>)	205 mg/l, 24 hours
Fish	LC50 Bluegill (<i>Lepomis macrochirus</i>)	100 mg/kg, 96 hours
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).

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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
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

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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 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.