### 1. Identification

Product Identifier Sugar Apple (Anon)

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

TelephoneNot availableE-mailNot availableEmergency phone numberNot availableSupplierSee 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.

## 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*%	
Sucralose		56038-13-2	0.1-1*%	
Linalool		78-70-6	0.1-1*%	
3-Methylbutyl Acetate	Isoamyl Acetate	123-92-2	0.1-1*%	
Butyl Acetate		123-86-4	0.1-1*%	
Malic Acid		617-48-1	1-5*%	
Propylene Glycol		57-55-6	80-100* %	
All concentrations are in percent by	weight unless ingredient is a gas. Gas co	oncentrations are in percen	nt by volume.	
Composition comments	*CANADA GHS: The exact percen	tage(concentration) of con	mposition has been withheld	
	As a trade secret.			
	4. First-Aid Mea	sures		
Inhalation	nhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medi			
	attention.			
Skin Contact	Wash with plenty of water. If skin in		nedical attention. Take off	
F G 4 4	contaminated clothing and wash it b		.1	
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
Ingestion		FR or doctor Rinse mouth	Do not induce vomiting	
Most important Symptoms/	Immediately call a POISON CENTER or doctor. Rinse mouth. Do not induce vomiting.  Symptoms may include eye irritation, tearing, redness, swelling. May cause an allergic			
Effects acute and delayed	skin reaction: Dermatitis, Rash.			
Indication of immediate medical	Symptoms may be delayed.			
attention and special treatment ne	eded			
General Information	If you feel unwell, seek medical adv	vice (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 ou	t of reach of children.		
	5 Fine Fielding M	ODCH POC		
	5. Fire-Fighting M	easures		
Suitable extinguishing media	Alcohol resistant foam. Dry powder			

Suitable extinguishing media
Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread fire During fire, gases hazardous to health may be formed.

Hazardous Combustion products
May include and are not limited to Oxides of carbon.

Specific methods General Fire Hazards Personal precautions, Protective equipment and Emergency	Move containers from fire area if you can do so without risk.  Use standard firefighting procedures and consider the hazards of other involved materials Flammable liquid and vapor.  6. Accidental Release Measures
General Fire Hazards  Personal precautions, Protective equipment and Emergency	Flammable liquid and vapor.
Personal precautions, Protective equipment and Emergency	
equipment and Emergency	6. Accidental Release Measures
equipment and Emergency	
	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.
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
<u> </u>	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.
0 /	Store in tightly closed container. Store away from incompatible material (see section 10 of the SDS). Keep out of reach of children.

### Occupational exposure limits

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910. 1000)

Material	Type	Value		
		_		
3-METHYLBUTYL ACETATE (CAS 123-92-2)	PEL	525 mg/m3		
(CAS 123-92-2)		100 ppm		
BUTYL ACETATE (CAS 123-86-	PEL	710 mg/m3		
4)		150 ppm		
US. ACGIH Threshold Limit Values				
OS. ACOM Threshold Limit Values				
Material	Туре	Value		
ACETIC ACID (CAS 64-19-7)	STEL	15 ppm		
	TWA	10 ppm		
3-METHYLBUTYL ACETATE (CAS 123-92-2)	STEL	100 ppm		

TWA 50 ppm

BUTYL ACETATE (CAS 123-86- STEL 150 ppm

4)

TWA 50 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Material	Type	Value
3-METHYLBUTYL ACETATE (CAS 123-92-2)	TWA	525 mg/m3
,		100 ppm
BUTYL ACETATE (CAS 123-86-4)	STEL	950 mg/m3
•,		200 ppm
	TWA	710 mg/m3
		150 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

AppearanceLiquidPhysical stateLiquidFormLiquid

**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 Not available **Evaporation rate** 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

Relative density Solubility(ies)

Vapour density

**Solubility (water)** Soluble or miscible in water

Not available

Not available

Partition coefficient(n-octanol/water) Not available

**Auto-Ignition Temperature** Product is not self-igniting

Decomposition temperatureNot availableViscosityNot 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 Hazardous polymerization doe not occur.

Reactions

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 May include and are not limited to: Oxides of carbon

products

#### 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

Malic Acid (CAS 617-48-1)

Acute

Oral

LD50 Rat 1600 mg/kg

Maltol (CAS 118-718-8)

Acute

Oral

LD50 Rat

1440 mg/kg

**Skin corrosion/ irritation** Causes skin irritation.

Exposure minutes

Erythema value

Oedema value

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Iris lesion value

Conjunctival reddening value

Not available.

Not available.

Not available.

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.

Not classified.

CarcinogenicityNot available.Reproductive ToxicityNot available.Specific target organ toxicity-Not classified.

Single exposure

ingle exposure

Repeated exposure

Specific target organ toxicity-

**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 (Pimephales promelas) > 17 - < 19 mg/l, 96 hours

Acute

Algae EC50 Green algae (Desmodesmus subspicatus) 674.7 mg/l, 72 hours

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Crustacea	LC50	Water flea (Daphnia magna)	205 mg/l, 24 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	100 mg/kg, 96 hours
3-Methylbutyl Acetate (CAS 123-9	92-2)		
Aquatic			
Algae	EC50	Algae	450 mg/l, 72 hours
		Green algae (Chlamydomonas variabilis)	539 mg/l, 72 hours DIN 38412 Part 9 static. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration.
Crustacea	EC50	Daphnia magna	42 mg/l, 48 hours DIN 38412 Part 11 static. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration.
Fish	LC100	Leuciscus idus (Golden orfe)	148 mg/l, 48 hours
		Danio rerio	> 22 - < 46 mg/l, 96 hours OECD 203, ISO 7346, 84/449/EEC, C.1 static. The details of the effect relate to the nominal concentration.
		Leuciscus idus (Golden orfe)	> 36 - < 131 mg/l, 48 hours
Other	EC10	Bacterium	674 mg/l, 30 minutes DIN 38412 Part 27 (draft) aerobic. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration.
	EC20	Activated Sludge	> 1000 mg/l, 30 minutes DIN EN ISO 8192-OECD 209- 88/302/EEC,P. C aerobic
Linalool (CAS 78-70-6)			55,502,EE5,1. Cuolooic
Other	EC10	Activated sludge of a predominantly domestic sewage	> 100 mg/l, 3 hours
Aquatic			
Algae	EC50	Green algae (Chlamydomonas variabilis)	88.3 mg/l, 96 hours DIN 38412 Part 9 static. The details of the toxic effect related to the nominal concentration.
Crustacea	EC50	Daphnia magna	20 mg/l, 48 hours DIN
		Page <b>7</b> of <b>9</b>	

38412 Part 11 static. The details of the toxic effect related to the nominal concentration.

Fish LC50 Ide, silver or golden orfe (Leuciscus idus)

> 22 - < 46 mg/l, 96 hours DIN 38412 Part 9 static. The details of the toxic effect related to the nominal concentration.

LC50-R Fish 27.8 mg/l, 96 hours

Persistence and Degradability

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

Bio accumulative potentialNo data availableMobility in SoilNot available.Mobility in GeneralNot 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 NameEthanolHazard Class3Packing GroupIIISpecial Provisions16, 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

Not listed. **Export Control List** 

(CEPA 1999, Schedule 3)

**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)

\*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 abovementioned 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.