

# SAFETY DATA SHEET

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## 1. Identification

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<b>Product Identifier</b>	<b>Blue Raspberry</b>
<b>Other means of Identification</b>	Flavor
<b>Recommended use</b>	Not available
<b>Recommended restriction</b>	Not known
<b>Manufacturer/Importer/Supplier/Distributor Information:</b>	
<b>Manufacturer Company Name</b>	RENAISSANCE FLAVORS INTERNATIONAL
<b>Address</b>	120 Nashdene Road, Scarborough, ON, Canada M1V 2W3
<b>Telephone</b>	Not available
<b>E-mail</b>	Not available
<b>Emergency phone number</b>	Not available
<b>Supplier</b>	See above.

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## 2. Hazard Identification

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<b>Physical Hazards</b>	Not Classified	
<b>Health Hazards</b>	Skin Sensitization	Category 1A
<b>Environmental Hazards</b>	Not Classified	



<b>Label elements</b>	
<b>Signal word</b>	Warning
<b>Hazard statement</b>	May cause an allergic skin reaction.
<b>Precautionary statement</b>	
<b>Prevention</b>	Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.
<b>Response</b>	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.
<b>Store</b>	None.
<b>Disposal</b>	Dispose container in accordance with local, regional, national and international regulation.
<b>Other Hazards</b>	None known.
<b>Supplemental Information</b>	None.

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## 3. Composition/Information on Ingredients

### Mixtures

Chemical name	Common name and Synonyms	CAS number	%
Linalool		78-70-6	0.1-1*%
Vanillin		121-33-5	0.1-1*%
Ethyl Acetate		141-78-6	0.1-1*%
Citric Acid		77-92-9	0.1-1*%
Ethyl Alcohol		64-17-5	5-10*%
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

<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Skin Contact</b>	Wash with plenty of water. If skin irritation /rash occur: Get medical attention. Take off contaminated clothing and wash it before reuse.
<b>Eye Contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Ingestion</b>	Immediately call a POISON CENTER or doctor. Rinse mouth. Do not induce vomiting.
<b>Most important Symptoms/ Effects acute and delayed</b>	Symptoms may include eye irritation, tearing, redness, swelling. May cause an allergic skin reaction: Dermatitis, Rash.
<b>Indication of immediate medical attention and special treatment needed</b>	Symptoms may be delayed.
<b>General Information</b>	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

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

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## 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 <sup>3</sup>
ETHYL ACETATE (CAS 141-78-6)	PEL	1400 mg/m <sup>3</sup>

#### US. ACGIH Threshold Limit Values

Material	Type	Value
ETHYL ALCOHOL (CAS 64-17-5)	STEL	1000 ppm
ETHYL ACETATE (CAS 141-78-6)	TWA	400 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 <sup>3</sup>
ETHYL ACETATE (CAS 141-78-6)	TWA	1400 mg/m <sup>3</sup>
		400 ppm

#### US. Workplace Environmental Exposure Level (WEEL) Guides

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Material	Type	Value
VANILLIN (CAS 121-33-5)	TWA	10 mg/m3

**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/m3

**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
ETHYL ACETATE (CAS 141-78-6)	TWA	400 ppm 0.5 mg/m3

**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.

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## 9. Physical and Chemical Properties

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

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## 10. Stability and Reactivity

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

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## 11. Toxicological Information

### Information on likely routes of exposure

<b>Inhalation</b>	Not available.
<b>Skin contact</b>	Not available
<b>Eye contact</b>	Not available.
<b>Ingestion</b>	Not available.

Components	Species	Test Results
Ethyl Acetate (CAS 141-78-6)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	5620 mg/kg
Ethyl Alcohol (CAS 64-17-5)		
<b>Acute</b>		
<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
Linalool (CAS 78-70-6)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	2790 mg/kg
Vanillin (CAS 121-33-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5010 mg/kg Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Food intake (animal). Gastrointestinal: Peritonitis.
<b>Skin corrosion/ irritation</b>	Not available.	
<b>Exposure minutes</b>	Not available.	
<b>Erythema value</b>	Not available.	
<b>Oedema value</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Not available.	
<b>Corneal opacity value</b>	Not available.	
<b>Iris lesion value</b>	Not available.	
<b>Conjunctival reddening value</b>	Not available.	
<b>Conjunctival oedema value</b>	Not available.	
<b>Recover days</b>	Not available.	
<b>Respiratory or skin sensitization</b>		

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<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
<b>Skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	May cause cancer. See below.
<b>Canada – Manitoba OELs: carcinogenicity</b>	
Ethyl Alcohol (CAS 64-17-5)	Confirmed animal carcinogen with unknown relevance to humans.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
Ethyl Alcohol (CAS 64-17-5)	Volume 44, Volume 96, Volume 100E Volume 96, Volume 100E
<b>Reproductive Toxicity</b>	Not available.
<b>Specific target organ toxicity- Single exposure</b>	Not classified.
<b>Specific target organ toxicity- Repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	Prolonged inhalation may be harmful.

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## 12. Ecological Information

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**Ecotoxicity** See below.

### Ecotoxicological data

Components	Species	Test Result
Citric Acid (CAS 77-92-9)		
<b>Aquatic</b>		
Fish	LC50 Leuciscus idus	440 mg/l. 48 hours OECD test Guideline 203
Daphnia and other aquatic invertebrates		
	EC50 Daphnia magna (Water flea)	1535 mg/l, 24 hours Static test
Ethyl Acetate (CAS 141-78-6)		
<b>Aquatic</b>		
Fish	LC50 Indian catfish (Heteropneustes fossilis)	> 200.32 - < 225.42 mg/L, 96 hours
Fish	LC50 Oncorhynchus mykiss (Rainbow trout)	350-600 mg/L, 96 hours
Daphnia & other aquatic invertebrates		
	EC50 Daphnia magna (Water flea)	2300-3090 mg/L, 96 hours
	LC50 Daphnia magna (Water flea)	560 mg/L, 48 hours
Algae		
	EC50 Algae	4300 mg/L, 24 hours
	EC50 Selenastrum	1800-3200 mg/L, 72 hours
Ethyl Alcohol (CAS 64-17-5)		
<b>Aquatic</b>		
Algae	EC50 Chlorella vulgaris	275 mg/l, 72 hours
Crustacea	EC50 Water flea	10800 mg/l, 24 hours 9268 mg/l, 48 hours

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Fish	LC50	Fathead minor ( <i>Pimephales promelas</i> )	14200 mg/l, 96 hours
Microtox	EC50	Photobacterium phosphoreum	35470 mg/l, 5 minutes
			34634 mg/l, 30 minutes
Linalool (CAS 78-70-6)			
Other	EC10	Activated sludge of a predominantly domestic sewage	> 100 mg/l, 3 hours
<b>Aquatic</b>			
Algae	EC50	Green algae ( <i>Chlamydomonas variabilis</i> )	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 38412 Part 11 static. The details of the toxic effect related to the nominal concentration.
Fish	LC50	Ide, silver or golden orfe ( <i>Leuciscus idus</i> )	> 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
<b>Persistence and Degradability</b>	No data is available on degradability of any ingredients in the mixture.		
<b>Bio accumulative potential</b>	No data available		
<b>Mobility in Soil</b>	Not available.		
<b>Mobility in General</b>	Not available.		
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

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## 13. Disposal Considerations

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<b>Disposal Instructions</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local Disposal Regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous Waste Code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues/ unused products</b>	Empty containers/liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal Instructions).
<b>Contaminated Packaging</b>	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.

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## 14. Transport Information

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<b>General</b>	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.
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## 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

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## 15. Regulatory Information

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**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).

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## 16. Other Information

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### 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

# **SAFETY DATA SHEET**

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.