1. Identification

Product Identifier Blood Orange

Other means of Identification Flavor

Recommended useNot 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	%		
Citronellol		106-22-9	0.1-1*%		
Citral		5392-40-5	0.1-1*%		
Orange Oil		8008-57-9	0.1-1*%		
Propylene Glycol		57-55-6	80-100* %		
All concentrations are in percent by we	ight unless ingredient is a gas. Gas co	oncentrations are in perce	nt by volume.		
Composition comments	*CANADA GHS: The exact percentage(concentration) of composition has been withheld				
•	As a trade secret.				
	4. First-Aid Mea	curec			
Inhalation	If symptoms develop move victim to		ersist obtain medical		
	attention.	o nesii an. n symptoms p	ersist, obtain medicar		
Skin Contact	Wash with plenty of water. If skin irritation /rash occur: Get medical attention. Take of				
	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/	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 need	ed				
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 ou	t of reach of children.			
	5. Fire-Fighting Mo	easures			
Suitable extinguishing media	Alcohol resistant foam. Dry powder	. Carbon dioxide.			
Unsuitable extinguishing media	Do not use water jet as an extinguish	her, as this will spread fire	e.		
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 0	Oxides of carbon.			
Special protective equipment and Precautions for firefighters	Self-contained breathing apparatus a	and full protective clothing	g must be worn.		
Fire fighting equipment/instructions	Move containers from fire area if yo	ou can do so without risk.			
Specific methods	Use standard firefighting procedures	s 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. Kee-p 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. ACGIH Threshold Limit Values

Material	Type	Value	Form
CITRAL (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and
			vanor

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 Orange

Odour Generally the odour reflects the flavour on the manufacturing label

Odour Threshold Not available pН 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 availableVapour pressureNot availableVapour densityNot availableRelative densityNot available

Solubility(ies)

Soluble or miscible in water

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 ava	nilable.			
Components	Species	S	Test Results	1	
Citronellol (CAS 106-22-9)					
Acute					
Oral					
LD50	Rat		3450 mg/kg		
Skin corrosion/irritation	Prolonged skin contact cause temporary irritation.				
Exposure minutes	Not ava	ailable.			
Erythema value	Not ava	ailable.			
Oedema value	Not ava	ailable.			
Serious eye damage/eye irritation	Not ava	ailable.			
Corneal opacity value	Not ava	ailable.			
Iris lesion value	Not ava	nilable.			
Conjunctival reddening value	Not ava	nilable.			
Conjunctival oedema value	Not ava	nilable.			
Recover days	Not ava	nilable.			
Respiratory or skin sensitization					
Respiratory sensitization	Not a re	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 available.				
Reproductive Toxicity	Not available.				
Specific target organ toxicity- Single exposure	Not cla	ssified.			
Specific target organ toxicity-	Not cla	ssified.			
Repeated exposure					
Aspiration hazard	Not an aspiration hazard.				
Chronic effects	Prolong	ged inhalation may be	e harmful.		
		12. Ecological	Information		
Ecotoxicity	See bel	ow			
Ecotoxicological data					
Components		Species		Test Result	
Citral (CAS 5392-40-5)					
Acute					
Other	EC20	Activated sludge of domestic sewage	of a predominantly	68 mg/l, 0.5 hours OECD Guideline 209 aquatic	
Aquatic					
Other	EC50	Bacterium		2100 mg/l, 0.5 hour DIN 38412 Part 27 (draft) aquation - The produce 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.

Acute

EC50 Algae Green algae (Chlamydomonas variabillis)

103.8 mg/l, 72 hours DIN 38412 Part 9 static - The produce 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 7 mg/l, 48 hours Directive Daphnia magna

79/831/EEC static - The produce 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 LC50 Ide, silver or golden orfe (Leuciscus idus) > 4.6 - <10 mg/l, 96 hours

DIN 38415 Part 15 static -The produce 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.

Citronellol (CAS 106-22-9)

Aquatic

Acute

Algae EC50 Algae 2.4 mg/l, 72 hours 17 mg/l, 48 hours Crustacea EC50 Daphnia

Fish LC50 Leuciscus idus (Golden orfe) > 10 - < 22 mg/l. 96 hours

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 NameEthanolHazard Class3Packing GroupIII

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

Special Provisions

(CEPA 1999, Schedule 3)

Not listed.

16, 150

Greenhouse Gases Not listed.

Precursor Control Regulated Not regulated.

WHMIS Controlled

International Regulations Controlled

Inventory status

Country(s) or RegionInventory Nameon Inventory (Yes/No)*CanadaDomestic Substances List (DSL)NoCanadaNon- 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 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.