



Safety Data Sheet

Grapefruit Lily Fragrance Oil

February 08, 2017

Section 1: Chemical Product and Company Identification

Product name: Grapefruit Lily Fragrance Oil
Contact Info: Bramble Berry Inc.
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Bellingham, WA 98225
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1-877-627-7883

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Section 2: Hazards Identification

2.1 Classification of the substance or mixture

This mixture has not been tested as a whole. The effects, listed below, are based on evaluation of individual components in accordance with the provisions of the regulation(s) noted below.

Classification according to GHS and (EC) No 1272/2008 (CLP)

Acute Toxicity Oral, Category 5	H303: May be harmful if swallowed
Aspiration Hazard, Category 1	H304: May be fatal if swallowed and enters airways
Acute Toxicity Dermal, Category 5	H313: May be harmful in contact with skin
Skin Corrosion/Irritation, Category 2	H315: Causes skin irritation
Sensitization, Skin, Category 1B	H317: May cause an allergic skin reaction
Eye Damage/Eye Irritation, Category 1	H318: Causes serious eye damage
Acute Toxicity Inhalation, Category 5	H333: May be harmful if inhaled
Aquatic Chronic Toxicity, Category 1	H410: Very toxic to aquatic life with long lasting effects

Classification OSHA (Provisions 1910.1200 of title 29)

Flammability	Class IIIB Combustible Liquid
Acute Dermal/Eye	12 : Causes skin irritation. 15 : May cause eye irritation.
Acute Inhalation	24 : Causes respiratory tract irritation. 25 : Inhalation at high levels may cause: tremors, labored breathing, hypothermia, lethargy, ataxia.
Acute Oral	3 : May be harmful if swallowed or if aspirated into the lungs
Reproductive/Developmental	39 : Causes reproductive/developmental toxicity in animals.
Sensitization/Allergic Response	31 : May cause allergic skin reaction.



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Target Organ Effects

26 : Prolonged or repeated ingestion may cause damage to: kidneys, adrenal glands, liver, stomach, brain, tongue, mucous membranes, musculo-skeletal system, male reproductive system.

28 : Prolonged or repeated Dermal Exposure may cause damage to: kidneys, skin, testes

Carcinogenicity

This mixture contains ingredients identified as carcinogens, at 0.1% or greater, by the following: None [X] ACGIH [] IARC [] NTP [] OSHA []

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal Word: Danger

Hazard statements

H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways
H313	May be harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H333	May be harmful if inhaled
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention:

P264	Wash hands thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment

Response:

P301 + P310 + P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting
P302 + P352	IF ON SKIN: Wash with soap and water
P304 + P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses if present and easy to do. continue rinsing
P310	Immediately call a POISON CENTER or doctor/physician
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P333 + P313	If skin irritation or a rash occurs: Get medical advice/attention

- P362 Take off contaminated clothing and wash before reuse
 P363 Wash contaminated clothing before reuse
 P391 Collect Spillage

2.3 Other Hazards

No data available

Section 3: Composition/Information on Ingredients

3.1 Mixtures

This product is a complex mixture of ingredients, which contains among others the following substance(s), presenting a health or environmental hazard within the meaning of the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS):

CAS# <i>Ingredient</i>	EC#	Conc. Range	GHS Classification	OSHA Classification
68647-72-3 <i>Limonene</i>	232-433-8	20 – 30 %	H226; H304; H315; H317; H400; H410	12, 3, 31
120-51-4 <i>Benzyl Benzoate</i>	204-402-9	10 – 20 %	H302; H313; H400; H411	28, 3
78-70-6 <i>Linalool</i>	201-134-4	5 – 10 %	H227; H303; H315; H317; H319; H402	12, 26
8000-41-7 <i>Terpineol</i>	232-268-1	5 – 10 %	H227; H303; H315; H319; H402	11, 15, 24
106-24-1 <i>Geraniol</i>	203-377-1	5 – 10 %	H303; H315; H317; H318; H402	11, 15, 31
2050-08-0 <i>Amyl salicylate</i>	218-080-2	5 – 10 %	H302; H316; H400; H410	
106-22-9 <i>Citronellol</i>	203-375-0	2 – 5 %	H303; H313; H315; H317; H319; H401	11, 15
8050-15-5 <i>Methyl ester of rosin (partially hydrogenated)</i>	232-476-2	2 – 5 %	H402; H412	31
8016-20-4 <i>Citrus grandis peel oil</i>	289-904-6	2 – 5 %	H226; H304; H315; H317; H400; H410	12, 3, 31
31906-04-4 <i>Hydroxyisohexyl 3-cyclohexene carboxaldehyde</i>	250-863-4	2 – 5 %	H317; H402	
24851-98-7 <i>Methyl Dihydrojasmonate</i>	246-863-4	2 – 5 %	H402	
106-25-2 <i>Nerol</i>	203-378-7	2 – 5 %	H303; H315; H317; H319; H402	15
80-54-6 <i>Butylphenyl Methylpropional</i>	201-289-8	2 – 5 %	H227; H302; H315; H317; H361; H401; H411	11, 15, 26, 28, 3, 31, 39
99-87-6	202-796-7	2 – 5 %	H226; H303; H304; H316;	11, 15



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<i>p</i> -Cymene			H401; H411	
122-40-7 <i>Amyl Cinnamal</i>	204-541-5	2 – 5 %	H303; H316; H317; H401; H411	11, 15
140-11-4 <i>Benzyl acetate</i>	205-399-7	1 – 2 %	H303; H316; H401; H412	15, 25, 26, 31, 39
101-86-0 <i>Hexyl cinnamaldehyde</i>	202-983-3	0.1 – 1.0 %	H303; H316; H317; H400; H411	11, 15
5989-27-5 <i>Limonene</i>	227-813-5	0.1 – 1.0 %	H226; H304; H315; H317; H400; H410	11, 15, 23
106-23-0 <i>Citronellal</i>	203-376-6	0.1 – 1.0 %	H227; H303; H313; H315; H317; H319; H401	11, 15
127-91-3 <i>β</i> -Pinene	204-872-5	0.1 – 1.0 %	H226; H304; H315; H317; H400; H410	11, 15, 24, 25, 31
147060-73-9 <i>2,6-Octadienal, 3,7-dimethyl-, reaction products with Et alc.</i>	291-768-8	0.1 – 1.0 %	H226; H315; H317; H402; H412	11, 15
122-54-9 <i>Lauric aldehyde</i>	203-983-6	0.1 – 1.0 %	H315; H317; H319	

See Section 16 for full text of GHS classification codes

Total Hydrocarbon Content (% w/w) = 27.62

Section 4: First Aid Measures

4.1 Description of first aid measures

Inhalation: Remove from exposure site to fresh air and keep at rest. Obtain medical advice.

Eye Exposure: Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

Skin Exposure: Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.

Ingestion: Rinse mouth with water and obtain medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: no data available

Risks: Refer to Section 2.2 "Hazard Statements"

4.3 Indication of any immediate medical attention and special treatment needed Treatment:

Refer to Section 2.2 "Response"

Section 5: Fire-Fighting Measures

5.1 Extinguishing media

Suitable: Carbon dioxide (CO₂), Dry chemical, Foam.

Unsuitable: Do not use a direct water jet on burning material.

5.2 Special hazards arising from the substance or mixture

During firefighting: Water may be ineffective.

5.3 Advice for firefighters

Further information: Standard procedure for chemical fires.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

6.2 Environmental precautions

Keep away from drains, soil, and surface and groundwater.

6.3 Methods and materials for containment and cleaning up

Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapors. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

6.4 Reference to other sections

Not Applicable.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Do not drink, eat or smoke while handling. Respect good personal hygiene.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container. Avoid plastic and uncoated metal container. Keep air contact to a minimum.

7.3 Specific end uses

No information available

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits:

Component		ACGIH TWA ppm	ACGIH STEL ppm	OSHA TWA ppm	OSHA STEL ppm
140-11-4	Benzyl acetate		10		
127-91-3	β-Pinene		20		

Engineering Controls: Use local exhaust as needed.

8.2 Exposure controls - Personal protective equipment

Eye protection: Tightly sealed goggles, face shield, or safety glasses with brow guards and side shields, etc. as may be appropriate for the exposure

Respiratory protection: Avoid excessive inhalation of concentrated vapors. Apply local ventilation where appropriate.

Skin protection: Avoid Skin contact. Use chemically resistant gloves as needed.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Conforms to Standard

Odor: Conforms to Standard

Color: Pale Yellow (G2-3)

Viscosity: Liquid

Freezing Point: Not determined

Boiling Point: Not determined

Melting Point: Not determined

Flashpoint (CCCFP): >200°F (93.33°C)

Auto flammability: Not determined

Explosive Properties: None Expected

Oxidizing properties: None Expected

Vapor Pressure (mmHg@20 C): 0.3518

%VOC: 31.2562

Specific Gravity @ 25 C: 0.9240

Density @ 25 C: 0.9210

Refractive Index @ 20 C: 1.4890

Soluble in: Oil

Section 10: Stability and Reactivity

10.1 Reactivity None

10.2 Chemical stability Stable

10.3 Possibility of hazardous reactions None known

10.4 Conditions to avoid None known

10.5 Incompatible materials Strong oxidizing agents, strong acids, and alkalis

10.6 Hazardous decomposition products None known

Section 11: Toxicological Information

11.1 Toxicological Effects

Acute Toxicity Estimates (ATEs) based on the individual Ingredient Toxicity Data utilizing the "Additivity Formula"

Acute toxicity - Oral - (Rat) mg/kg (LD50: 3104.68): May be harmful if swallowed

Acute toxicity - Dermal - (Rabbit) mg/kg (LD50: 4088.16): May be harmful in contact with skin

Acute toxicity - Inhalation - (Rat) mg/L/4hr (LC50: 34.72): May be harmful if inhaled

Skin corrosion / irritation: Causes skin irritation

Serious eye damage / irritation: Causes serious eye irritation

Respiratory sensitization: Not classified - the classification criteria are not met

Skin sensitization: May cause an allergic skin reaction

Germ cell mutagenicity: Not classified - the classification criteria are not met

Carcinogenicity: Not classified - the classification criteria are not met

Reproductive toxicity: Not classified - the classification criteria are not met

Specific target organ toxicity - single exposure: Not classified - the classification criteria are not met.

Specific target organ toxicity - repeated exposure: Not classified - the classification criteria are not met.

Aspiration hazard: May be fatal if swallowed and enters airways

Section 12: Ecological Information

12.1 Toxicity

Acute aquatic toxicity: Not classified - the classification criteria are not met

Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects.

Toxicity Data on soil: No data available.

Toxicity on other organisms: No data available.

12.2 Persistence and degradability: No data available.

12.3 Bioaccumulative potential: No data available.

12.4 Mobility in soil: No data available.

12.5 Other adverse effects: No data available.

Section 13: Disposal Conditions

13.1 Waste treatment methods

Do not allow product to reach sewage systems. Dispose of in accordance with all local and national regulations. Send to a licensed waste management company. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.

Section 14: Transport Information

Regulator	Class	Pack Group	Sub Risk	UN-nr.
U.S. DOT (Non-Bulk) Chemicals NOI	Not Regulated - Not Dangerous Goods			
ADR/RID (International Road/Rail) Environmentally Hazardous Substance, Liquid, n.o.s.	9	III		UN3082
IATA (Air Cargo) Environmentally Hazardous Substance, Liquid, n.o.s.	9	III		UN3082
IMDG (Sea) Environmentally Hazardous Substance, Liquid, n.o.s.	9	III		UN3082

Section 15: Regulatory Information

U.S. Federal Regulations:

TSCA (Toxic Substance Control Act): All components of the substance/mixture are listed or exempt.

40 CFR (EPCRA, SARA, CERCLA and CAA): This product contains NO components of concern.

U.S. State Regulations:

California Proposition 65 Warning: This product contains the following components:

123-35-3(NFS) 204-622-5 0.1 - 1.0 % beta-Myrcene (NFS)

Canadian Regulations:

DSL / NDSL: 99.97% of the components are listed or exempt.

6753-98-6 229-816-7 <= 0 ppm 3,7,10-Humulatriene

Section 16: Other Information

GHS H-Statements referred to under section 3

Total Fractional Values

(TFV) Risk

(2.78) Aspiration Hazard, Category 1

(9.67) Sensitization, Skin, Category 1B

(1.23) Aquatic Chronic Toxicity, Category 1

(TFV) Risk

(6.11) Skin Corrosion/Irritation, Category 2

(2.21) Eye Damage/Eye Irritation, Category 1



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