



Safety Data Sheet

Chamomile Fragrance Oil (V000187)

May 18, 2018

Section 1: Chemical Product and Company Identification

Product name: **Chamomile Fragrance Oil**
Contact Info: Bramble Berry Inc.
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Bellingham, WA 98225
info@brambleberry.com
www.brambleberry.com
1-877-627-7883

Emergency Phone Number: Within USA & Canada: 1.800.424.9300 CCN693143
Outside USA & Canada: +1.703.527.3887 (collect calls accepted)

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)

Flammable Liquids, Category 4	H227: Combustible liquid
Acute Toxicity Oral, Category 5	H303: May be harmful if swallowed
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 1A	H317: May cause an allergic skin reaction
Eye Damage/Eye Irritation, Category 2A	H319: Causes serious eye irritation
Acute Toxicity Inhalation, Category 5	H333: May be harmful if inhaled
Reproductive Toxicology, Category 2	H361: Suspected of damaging fertility or the unborn child
Target Organ Systemic Toxicity - Single Exposure, Category 2	H371: May cause damage to organs
Aquatic Acute Toxicity, Category 1	H400: Very Toxic to aquatic life
Aquatic Chronic Toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects

Classification OSHA (Provisions 1910.1200 of title 29)

Flammability	Class IIIA Combustible Liquid
Acute Dermal/Eye	12 : Causes skin irritation. 16 : Causes eye irritation. 19 : May cause photo-induced skin irritation.
Acute Inhalation	23 : May cause respiratory tract irritation.



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Acute Oral	25 : Inhalation at high levels may cause: tremors, labored breathing, hypothermia, lethargy, ataxia.
Reproductive/Developmental	3 : May be harmful if swallowed or if aspirated into the lungs
Sensitization/Allergic Response	39 : Causes reproductive/developmental toxicity in animals.
Target Organ Effects	31 : May cause allergic skin reaction.
	26 : Prolonged or repeated ingestion may cause damage to: kidneys, adrenal glands, liver, spleen, bone marrow, stomach, brain, thyroid, tongue, mucous membranes, musculo-skeletal system, male reproductive system.
	28 : Prolonged or repeated Dermal Exposure may cause damage to: kidneys, liver, bone marrow, 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: Warning

Hazard statements

H227	Combustible liquid
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H333	May be harmful if inhaled
H361	Suspected of damaging fertility or the unborn child
H371	May cause damage to organs
H400	Very Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention:

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P235	Keep cool
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P281	Use personal protective equipment as required

Response:

- 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
- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P309 IF exposed or you feel unwell:
- P311 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
- P337 + P313 If eye irritation persists: Get medical advice/attention
- P362 Take off contaminated clothing and wash before reuse
- P363 Wash contaminated clothing before reuse
- P370 + P378 In case of fire: Use Carbon dioxide (CO₂), Dry chemical, or Foam for extinction. Do not use a direct water jet on burning material
- 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# Ingredient	EC#	Conc. Range	GHS Classification	OSHA Classification
101-86-0 <i>Hexyl cinnamaldehyde</i>	202-983-3	10 - 20 %	H303; H316; H317; H400; H411	11, 15
122-40-7 <i>Amyl Cinnamal</i>	204-541-5	5 - 10 %	H303; H316; H317; H401; H411	11, 15
78-70-6 <i>Linalool</i>	201-134-4	5 - 10 %	H227; H303; H315; H317; H319; H402	12, 26
68917-33-9 <i>Citrus Limon Peel Oil Terpenes</i>	284-515-8	5 - 10 %	H226; H304; H315; H400; H410	12, 3, 31
140-11-4 <i>Benzyl acetate</i>	205-399-7	5 - 10 %	H303; H316; H401; H412	15, 25, 26, 31, 39
80-54-6 <i>Butylphenyl Methylpropional</i>	201-289-8	5 - 10 %	H227; H302; H315; H317; H361; H401; H412	11, 15, 26, 28, 3, 31, 39
120-51-4 <i>Benzyl Benzoate</i>	204-402-9	5 - 10 %	H302; H313; H400; H411	28, 3



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93-92-5 <i>methylbenzyl acetate</i>	202-288-5	2 - 5 %	H227; H402	
546-80-5 <i>Thujone</i>	208-912-2	2 - 5 %	H227; H302	
1222-05-5 <i>Hexamethylindanopyran</i>	214-946-9	2 - 5 %	H316; H400; H410	11, 15
127-51-5 <i>a-Isomethyl ionone</i>	204-846-3	2 - 5 %	H315; H317; H320; H401; H411	11, 15, 19, 26, 28, 31
76-22-2 <i>Camphor</i>	200-945-0	1 - 2 %	H228; H302; H332; H371; H402	
103-95-7 <i>2-Methyl-3-(p-isopropylphenyl)propionaldehyde</i>	203-161-7	1 - 2 %	H227; H303; H315; H317; H401; H412	11, 15, 31
60-12-8 <i>phenethyl alcohol</i>	200-456-2	1 - 2 %	H302; H313; H316; H319	11, 15, 3
18871-14-2 <i>4-Acetoxy-3-pentyltetrahydropyran</i>	242-640-5	1 - 2 %	H402	
98-55-5 <i>alpha-Terpineol</i>	202-680-6	1 - 2 %	H227; H303; H315; H319; H401	11, 15, 23
470-82-6 <i>Eucalyptol</i>	207-431-5	0.1 - 1.0 %	H226; H303; H316; H317	26, 27, 3
110-41-8 <i>2-Methylundecanal</i>	203-765-0	0.1 - 1.0 %	H227; H315; H317; H402; H410	
106-22-9 <i>Citronellol</i>	203-375-0	0.1 - 1.0 %	H303; H313; H315; H317; H319; H401	11, 15
127-43-5 <i>Methyl-β-ionone</i>	204-843-7	0.1 - 1.0 %	H316; H317; H401; H411	11, 15, 19, 26, 28, 31
105-87-3 <i>Geranyl acetate</i>	203-341-5	0.1 - 1.0 %	H315; H317; H401; H412	11, 15
8014-17-3(P) <i>Citrus Aurantium Amara (Bitter Orange) Leaf/Twig Oil</i>	277-143-2	0.1 - 1.0 %	H227; H315; H317; H318; H401; H411	12, 3, 31
68737-61-1 <i>Dimethyltetrahydro Benzaldehyde</i>	272-113-5	0.1 - 1.0 %	H227; H303; H313; H315; H317; H401; H411	12, 15, 31
141-12-8 <i>Neryl acetate</i>	205-459-2	0.1 - 1.0 %	H315; H317; H401	
106-24-1 <i>Geraniol</i>	203-377-1	0.1 - 1.0 %	H303; H315; H317; H318; H402	11, 15, 31

80-56-8 <i>a-Pinene</i>	201-291-9	0.1 - 1.0 %	H226; H302; H304; H315; H317; H400; H410	11, 15, 25
115-95-7 <i>Linalyl acetate</i>	204-116-4	0.1 - 1.0 %	H227; H315; H317; H319; H402	
31906-04-4 <i>Hydroxyisohexyl 3-cyclohexene carboxaldehyde</i>	250-863-4	0.1 - 1.0 %	H317; H402	
106-25-2 <i>Nerol</i>	203-378-7	0.1 - 1.0 %	H303; H315; H317; H318; H401	15
104-55-2 <i>Cinnamal</i>	203-213-9	0.01 - 0.1%	H303; H312; H315; H317; H319; H401	10, 12, 16, 26, 31, 36

See Section 16 for full text of GHS classification codes
 Total Hydrocarbon Content (% w/w) = 7.37

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 fire fighting: 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			
76-22-2 Camphor	2	3		
80-56-8 a-Pinene	20			

Engineering Controls: Use local exhaust as needed.



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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:	Liquid
Odor:	Conforms to Standard
Color:	Yellow Tint (G0/1) to Greenish Yellow (G2)
Viscosity:	Liquid
Freezing Point:	Not determined
Boiling Point:	Not determined
Melting Point:	Not determined
Flashpoint (CCCFP):	172 F (77.78 C)
Auto flammability:	Not determined
Explosive Properties:	None Expected
Oxidizing properties:	None Expected
Vapor Pressure (mmHg@20 C):	0.1627
%VOC:	23.2718
Specific Gravity @ 25 C:	0.9360
Density @ 25 C:	0.9330
Refractive Index @ 20 C:	1.4910
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: 2,180.04) May be harmful if swallowed
Acute toxicity - Dermal - (Rabbit) mg/kg	(LD50: 3,893.46) May be harmful in contact with skin
Acute toxicity - Inhalation - (Rat) mg/L/4hr	(LC50: 30.24) May be harmful if inhaled



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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	Suspected of damaging fertility or the unborn child
Specific target organ toxicity single exposure	May cause damage to organs
Specific target organ toxicity repeated exposure	Not classified - the classification criteria are not met
Aspiration hazard	Not classified - the classification criteria are not met

Section 12: Ecological Information

12.1 Toxicity

Acute aquatic toxicity	Very Toxic to aquatic life
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:

93-15-2	202-223-0	≤98 ppm	Methyl Eugenol (NFS)
123-35-3(NF)	204-662-5	0.1 – 1.0%	beta-Myrcene (NFS)

Canadian Regulations:

DSL / NDSL

99.13% of the components are listed or exempt.

Section 16: Other Information

GHS H-Statements referred to under section 3

H317 : May cause an allergic skin reaction

H318 : Causes serious eye damage

H320 : Causes eye irritation

H332 : Harmful if inhaled



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H401 : Toxic to aquatic life
H402 : Harmful to aquatic life
H410 : Very toxic to aquatic life with long lasting effects
H412 : Harmful to aquatic life with long lasting effects

Total Fractional Values

(TFV) Risk
(TFV) Risk
(3.09) Skin Corrosion/Irritation, Category 2
(15.00) Sensitization, Skin, Category 1A
(2.71) Eye Damage/Eye Irritation, Category 2A
(1.87) Reproductive Toxicology, Category 2
(1.96) Target Organ Systemic Toxicity - Single Exposure, Category 2
(1.18) Aquatic Acute Toxicity, Category 1
(5.60) Aquatic Chronic Toxicity, Category 2

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