



## Safety Data Sheet

### Vetyver Type Fragrance Oil

September 11, 2018

#### Section 1: Chemical Product and Company Identification

**Product name:** Vetyver Type Fragrance Oil  
**Contact Info:** Bramble Berry Inc.  
2138 Humboldt Street  
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)

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
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 IIIB Combustible Liquid
Acute Dermal/Eye	11 : May cause skin irritation. 16 : Causes eye irritation. 19 : May cause photo-induced skin irritation.
Acute Inhalation	23 : May cause respiratory tract irritation.
Acute Oral	3 : May be harmful if swallowed .
Reproductive/Developmental	39 : Causes reproductive/developmental toxicity in animals.
Sensitization/Allergic Response	31 : May cause allergic skin reaction.

Target Organ Effects

26 : Prolonged or repeated ingestion may cause damage to: kidneys, adrenal glands, liver, 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
- 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
- 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
- P264 Wash hands thoroughly after handling
- 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



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P308 + P313	IF exposed or concerned: Get medical advice/attention
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
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
98-55-5 <i>alpha-Terpineol</i>	202-680-6	10 – 20 %	H227; H303; H315; H319; H401	11, 15, 23
54464-57-2 <i>Tetramethyl Acetyloctahydronaphthalenes</i>	259-174-3	10 – 20 %	H315; H317; H400; H410	11, 31
120-51-4 <i>Benzyl Benzoate</i>	204-402-9	5 – 10 %	H302; H313; H400; H411	28, 3
32210-23-4 <i>4-tert-Butylcyclohexyl acetate</i>	250-954-9	5 – 10 %	H303; H317; H401	11, 15
122-40-7 <i>Amyl Cinnamal</i>	204-541-5	5 – 10 %	H303; H316; H317; H401; H411	11, 15
1222-05-5 <i>Hexamethylindanopyran</i>	214-946-9	5 – 10 %	H316; H400; H410	11, 15
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
32388-55-9 <i>Acetyl cedrene</i>	251-020-3	2 – 5 %	H316; H317; H400; H410	16, 19
101-86-0 <i>Hexyl cinnamaldehyde</i>	202-983-3	2 – 5 %	H303; H316; H317; H400; H411	11, 15
31906-04-4 <i>Hydroxyisohexyl 3-cyclohexene carboxaldehyde</i>	250-863-4	2 – 5 %	H317; H402	
125-12-2 <i>Isobornyl acetate</i>	204-727-6	2 – 5 %	H227; H316; H401	11, 15

5462-06-6 <i>4-Methoxy-alpha-methylbenzenepropanal</i>	226-727-6	1 – 2 %	H227; H303; H317; H402	11, 15, 31
115-95-7 <i>Linalyl acetate</i>	204-116-4	0.1 – 1.0 %	H227; H315; H317; H319; H402	
8016-23-7 <i>Guaiac wood oil</i>	289-632-8	0.1 - 1.0 %	H315; H317; H401; H411	
2785-87-7 <i>Dihydroeugenol (2-Methoxy-4-propylphenol)</i>	220-499-0	0.1 – 1.0 %	H303; H315; H317; H318; H335; H401	12, 14, 31, 9
78-70-6 <i>Linalool</i>	201-134-4	0.1 – 1.0 %	H227; H303; H315; H317; H319; H402	12, 26
68647-72-3 <i>Limonene</i>	232-433-8	0.1 - 1.0 %	H226; H304; H315; H317; H400; H410	12, 3, 31
68737-61-1 <i>Dimethyltetrahydro Benzaldehyde</i>	272-116-5	0.1 – 1.0 %	H227; H303; H313; H315; H317; H401; H411	12, 15, 31
70788-30-6 <i>Trimethyl-propylcyclohexanepropanol</i>	274-892-7	0.1 – 1.0 %	H317	11
97-54-1 <i>Iso Eugenol</i>	202-590-7	0.01 – 0.1 %	H302; H312; H315; H317; H319; H401	12, 15, 3, 31, 9
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) = 0.90

## 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 (CO<sub>2</sub>), 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:** Contains no substances with occupational exposure limit values

**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:** Liquid

**Odor:** Conforms to Standard

**Color:** Yellow Tint (G1) to Pale Yellow (G3)

**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):** 0.0234

**%VOC:** 1.282

**Specific Gravity @ 25 C:** 0.9610

**Density @ 25 C:** 0.9580

**Refractive Index @ 20 C:** 1.4930

**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: 3410.67): May be harmful if swallowed

**Acute toxicity - Dermal - (Rabbit) mg/kg** (LD50: 3893.70): May be harmful in contact with skin

**Acute toxicity - Inhalation - (Rat) mg/L/4hr** (LC50: 39.21): 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:** Suspected of damaging fertility or the unborn child

**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:** 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.
<b>U.S. DOT (Non-Bulk)</b> Chemicals NOI	Not Regulated - Not Dangerous Goods			
<b>ADR/RID (International Road/Rail)</b> Environmentally Hazardous Substance, Liquid, n.o.s.	9	III		UN3082
<b>IATA (Air Cargo)</b> Environmentally Hazardous Substance, Liquid, n.o.s.	9	III		UN3082
<b>IMDG (Sea)</b> 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:

89-82-7	201-943-2	<=20 ppm	Pulegone (NFS)
123-35-3(NFS)	204-622-5	0.1 – 1.0 %	beta-Myrcene (NFS)

### Canadian Regulations:

**DSL / NDSL:** 100.0% of the components are listed or exempt.

## Section 16: Other Information

### GHS H-Statements referred to under section 3

H226 : Flammable liquid and vapour

H302 : Harmful if swallowed

H312 : Harmful in contact with skin

H317 : May cause an allergic skin reaction

H227 : Combustible liquid

H304 : May be fatal if swallowed and enters airways

H316 : Causes mild skin irritation

H318 : Causes serious eye damage





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H335 : May cause respiratory irritation

H402 : Harmful to aquatic life

H412 : Harmful to aquatic life with long lasting effects

H401 : Toxic to aquatic life

H410 : Very toxic to aquatic life with long lasting effects

### Total Fractional Values

#### (TFV) Risk

(3.76) Skin Corrosion/Irritation, Category 2

(2.47) Eye Damage/Eye Irritation, Category 2A

(1.43) Aquatic Acute Toxicity, Category 1

#### (TFV) Risk

(320.00) Sensitization, Skin, Category 1A

(50.00) Reproductive Toxicology, Category 2

(9.76) Aquatic Chronic Toxicity, Category 2

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