Safety Data Sheet
Patchouli Incense Fragrance Oil (V000173)  
January 24, 2017

Section 1: Chemical Product and Company Identification

Product name: Patchouli Incense 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)  
- Flammable Liquids, Category 4: H227: Combustible liquid  
- Acute Toxicity Oral, Category 4: H302: Harmful if swallowed  
- Acute Toxicity Dermal, Category 4: H312: 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 2A: H319: Causes serious eye irritation  
- Acute Toxicity Inhalation, Category 5: H333: May be harmful if inhaled  
- Carcinogenicity, Category 1B: H350: May cause cancer  
- 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 moderate skin irritation  
- 15: May cause eye irritation  
- 9: Harmful if absorbed through the skin  
- Acute Inhalation: 23: May cause respiratory tract irritation  
- 25: Inhalation at high levels may cause: tremors, labored breathing, hypothermia, lethargy, ataxia  
- Acute Oral: 2: 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: Prolongs or repeated ingestion may cause damage to: kidneys, liver, spleen, blood, brain, bile duct, tongue, mucous membranes, musculo-skeletal system.
28: Prolonged or repeated Dermal Exposure may cause damage to: kidneys, skin

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
H227 Combustible liquid
H302 Harmful if swallowed
H312 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
H350 May cause cancer
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
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:
P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth
+ P330

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  IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses if present and
+ P338 easy to do. continue rinsing

P308 + P313  IF exposed or concerned: Get medical advice/attention
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):

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Ingredient</th>
<th>EC#</th>
<th>Conc. Range</th>
<th>GHS Classification</th>
<th>OSHA Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-51-4</td>
<td>Benzyl Benzoate</td>
<td>204-402-9</td>
<td>30 – 40 %</td>
<td>H302; H313; H400; H411</td>
<td>28, 3</td>
</tr>
<tr>
<td>60-12-8</td>
<td>Phenethyl alcohol</td>
<td>200-456-2</td>
<td>10 – 20 %</td>
<td>H302; H313; H316; H319</td>
<td>11, 15, 3</td>
</tr>
<tr>
<td>91-64-5</td>
<td>Coumarin</td>
<td>202-086-7</td>
<td>5 – 10 %</td>
<td>H302; H317; H402</td>
<td>12, 15, 2, 26, 31, 9</td>
</tr>
<tr>
<td>68647-72-3</td>
<td>Limonene</td>
<td>232-433-8</td>
<td>5 – 10 %</td>
<td>H226; H304; H315; H317; H400; H410</td>
<td>12, 3, 31</td>
</tr>
<tr>
<td>8014-09-3</td>
<td>Pogostemon cablin oil</td>
<td>282-493-4</td>
<td>5 – 10 %</td>
<td>H316</td>
<td></td>
</tr>
<tr>
<td>121-33-5</td>
<td>Vanillin</td>
<td>204-465-2</td>
<td>5 – 10 %</td>
<td>H303; H319</td>
<td>31</td>
</tr>
<tr>
<td>98-55-5</td>
<td>Alpha-terpineol</td>
<td>202-680-6</td>
<td>2 – 5 %</td>
<td>H227; H303; H315; H319; H401</td>
<td>11, 15, 23</td>
</tr>
</tbody>
</table>

www.brambleberry.com
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"

---

See Section 16 for full text of GHS classification codes

Total Hydrocarbon Content (% w/w) = 1.00

---

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Physical State</th>
<th>Boiling Point</th>
<th>Vapor Pressure</th>
<th>flash point</th>
<th>Reactivity</th>
<th>GHS Health Statements</th>
<th>GHS Fire Fighting Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>58430-94-7</td>
<td>Liquid</td>
<td>261-245-9</td>
<td>2 – 5 %</td>
<td>H227; H303; H315; H401; H411</td>
<td>11, 15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3,5,5-Trimethylhexyl acetate</td>
<td></td>
<td>205-399-7</td>
<td>2 – 5 %</td>
<td>H303; H316; H401; H412</td>
<td>15, 25, 26, 31, 39</td>
<td></td>
<td></td>
</tr>
<tr>
<td>140-11-4</td>
<td>Liquid</td>
<td>204-464-7</td>
<td>2 – 5 %</td>
<td>H303; H320; H402</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzyl acetate</td>
<td></td>
<td>203-341-5</td>
<td>1 – 2 %</td>
<td>H315; H317; H401; H412</td>
<td>11, 15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>121-32-4</td>
<td>Liquid</td>
<td>204-641-5</td>
<td>0.1 – 1.0 %</td>
<td>H303; H316; H317; H401; H411</td>
<td>11, 15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethyl vanillin</td>
<td></td>
<td>203-375-0</td>
<td>0.1 – 1.0 %</td>
<td>H303; H313; H315; H317; H319; H401</td>
<td>11, 15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>105-87-3</td>
<td>Liquid</td>
<td>203-377-1</td>
<td>0.1 – 1.0 %</td>
<td>H303; H315; H317; H318; H402</td>
<td>11, 15, 31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geranyl acetate</td>
<td></td>
<td>224-052-0</td>
<td>0.1 – 1.0 %</td>
<td>H303; H316; H317; H401</td>
<td>11, 15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4180-23-8</td>
<td>Liquid</td>
<td>203-378-7</td>
<td>0.1 – 1.0 %</td>
<td>H303; H315; H317; H319; H402</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trans-anethole[(E)-Anethole]</td>
<td></td>
<td>283-479-0</td>
<td>0.1 – 1.0 %</td>
<td>H227; H303; H313; H316; H319; H341; H350; H401; H412</td>
<td>11, 15, 31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>106-25-2</td>
<td>Liquid</td>
<td>283-479-0</td>
<td>0.1 – 1.0 %</td>
<td>H227; H303; H313; H316; H319; H341; H350; H401; H412</td>
<td>11, 15, 31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nerol</td>
<td>Liquid</td>
<td>203-377-1</td>
<td>0.1 – 1.0 %</td>
<td>H303; H315; H317; H318; H402</td>
<td>11, 15, 31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8015-91-6</td>
<td>Liquid</td>
<td>203-378-7</td>
<td>0.1 – 1.0 %</td>
<td>H303; H315; H317; H319; H402</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil Cinnamon Leaf Ceylon</td>
<td></td>
<td>283-479-0</td>
<td>0.1 – 1.0 %</td>
<td>H227; H303; H313; H316; H319; H341; H350; H401; H412</td>
<td>11, 15, 31</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TWA ppm</th>
<th>ACGIH STEL ppm</th>
<th>OSHA TWA ppm</th>
<th>OSHA STEL ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl Acetate</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

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: Golden (Brownish) Yellow to Golden Orange (G8-11)
Viscosity: Liquid
Freezing Point: Not determined
Boiling Point: Not determined
Melting Point: Not determined
Flashpoint (CCCFP): 170°F (76.67°C)
Auto flammability: Not determined
Explosive Properties: None Expected
Oxidizing properties: None Expected
Vapor Pressure (mmHg@20 C): 0.1073
%VOC: 15.175
Specific Gravity @ 25 C: 1.0450
Density @ 25 C: 1.0420
Refractive Index @ 20 C: 1.5360
Soluble in: Oil

www.brambleberry.com
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: 1,794.22): Harmful if swallowed
Acute toxicity - Dermal - (Rabbit) mg/kg (LD50: 1,384.03): May be harmful in contact with skin
Acute toxicity - Inhalation - (Rat) mg/L/4hr (LC50: 78.66): May be harmful if inhaled

Skin corrosion / irritation: Causes skin irritation
Serious eye damage / irritation: Causes serious eye damage
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: May cause cancer
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: 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

<table>
<thead>
<tr>
<th>Regulator</th>
<th>Class</th>
<th>Pack Group</th>
<th>Sub Risk</th>
<th>UN-nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. DOT (Non-Bulk) Chemicals NOI</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADR/RID (International Road/Rail)</td>
<td>9</td>
<td>III</td>
<td></td>
<td>UN3082</td>
</tr>
<tr>
<td>Environmentally Hazardous Substance, Liquid, n.o.s.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IATA (Air Cargo)</td>
<td>9</td>
<td>III</td>
<td></td>
<td>UN3082</td>
</tr>
<tr>
<td>Environmentally Hazardous Substance, Liquid, n.o.s.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMDG (Sea)</td>
<td>9</td>
<td>III</td>
<td></td>
<td>UN3082</td>
</tr>
<tr>
<td>Environmentally Hazardous Substance, Liquid, n.o.s.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:
94-59-7 202-345-4 <= 20ppm Safrole (NFS)
93-15-2 202-223-0 <= 9ppm Methyl Eugenol (NFS)
123-35-3(NF) 204-622-5 0.1 – 1.0 % beta-Myrcene (NFS)

Canadian Regulations:
DSL / NDSL: 100.00% of the components are listed or exempt.

Section 16: Other Information

Total Fractional Values

<table>
<thead>
<tr>
<th>(TFV) Risk</th>
<th>(TFV) Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2.07) Skin Corrosion/Irritation, Category 2</td>
<td>(8.35) Sensitization, Skin, Category 1B</td>
</tr>
<tr>
<td>(3.88) Eye Damage/Eye Irritation Category 1</td>
<td>(1.70) Carcinogenicity, Category 1B</td>
</tr>
<tr>
<td>(1.66) Aquatic Acute Toxicity, Category 1</td>
<td>(5.03) Aquatic Chronic Toxicity, Category 2</td>
</tr>
</tbody>
</table>

www.bramleberry.com
The information in this publication is believed to be accurate and is given in good faith, but no representation of warranty as to its completeness or accuracy is made. Suggestions for uses or applications are only opinions. Users are responsible for determining the suitability of these products for their own particular purpose. No representing of warranty, expressed or implied, is made with respect to information or products including, without limitation, warranties or merchantability, fitness for a particular purpose, non-fringement of any third party patent or other intellectual property rights including, without limit, copyright, trademark and design.