Section 1: Chemical Product and Company Identification

Product name: Vanilla Select 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 5: H303 : May be harmful if swallowed
- Acute Toxicity Dermal, Category 5: H313 : May be harmful in contact with skin
- Sensitization, Skin, Category 1B: H317 : May cause an allergic skin reaction
- Eye Damage/Eye Irritation, Category 2B: H320 : Causes eye irritation
- Acute Toxicity Inhalation, Category 5: H333 : May be harmful if inhaled
- 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)
- Sensitization, Skin, Category 1B: H317 : May cause an allergic skin reaction
- Eye Damage/Eye Irritation, Category 2: H319 : Causes serious eye irritation
- 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

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
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H320 Causes eye irritation
H333 May be harmful if inhaled
H400 Very Toxic to aquatic life
H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention:
P235 Keep cool
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:
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
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
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>
</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>
</tr>
<tr>
<td>121-32-4</td>
<td>Ethyl Vanillin</td>
<td>204-464-7</td>
<td>10-20%</td>
<td>H303; H320; H402</td>
</tr>
<tr>
<td>91-64-5</td>
<td>Coumarin</td>
<td>202-086-7</td>
<td>2-5%</td>
<td>H302; H317; H402</td>
</tr>
<tr>
<td>123-11-5</td>
<td>Anisaldehyde</td>
<td>204-602-6</td>
<td>1-2%</td>
<td>H303; H402; H412</td>
</tr>
<tr>
<td>600-14-6</td>
<td>2,3-Pentanedione</td>
<td>209-984-8</td>
<td>0.1-1.0%</td>
<td>H225; H303; H313; H316; H317; H318; H373; H402</td>
</tr>
</tbody>
</table>

See Section 16 for full text of GHS classification codes
Total Hydrocarbon Content (% w/w) = 0.00

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 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

<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>600-14-6</td>
<td>2,3-Pentanedione</td>
<td></td>
<td></td>
<td>0</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: Liquid
Odor: Conforms to Standard
Color: Conforms to Standard
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): 0.00410
%VOC: 0.63
Specific Gravity @ 25 C: Not determined
Density @ 25 C: Not determined
Refractive Index @ 20 C: Not determined
Soluble in: Oil

Section 10: Stability and Reactivity
Reactivity
Chemical stability: Stable
Possibility of hazardous reactions: None known
Conditions to avoid
Incompatible materials: Strong oxidizing agents, strong acids, and alkalis
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"

<table>
<thead>
<tr>
<th>Toxicity Type</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral - (Rat) mg/kg</td>
<td>LD50: 2426.8292 May be harmful if swallowed</td>
</tr>
<tr>
<td>Acute toxicity - Dermal - (Rabbit) mg/kg</td>
<td>LD50: 3311.0367 May be harmful in contact with skin</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation - (Rat) mg/L/4hr</td>
<td>LD50: 3778.6259 May be harmful if inhaled</td>
</tr>
<tr>
<td>Skin corrosion / irritation</td>
<td>Not classified - the classification criteria are not met</td>
</tr>
<tr>
<td>Serious eye damage / irritation</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Not classified - the classification criteria are not met</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified - the classification criteria are not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified - the classification criteria are not met</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified - the classification criteria are not met</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td>Not classified - the classification criteria are not met</td>
</tr>
<tr>
<td>Specific target organ toxicity - repeated exposure</td>
<td>Not classified - the classification criteria are not met</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified - the classification criteria are not met</td>
</tr>
</tbody>
</table>

Section 12: Ecological Information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Toxicity Type</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute aquatic toxicity:</td>
<td>Very Toxic to aquatic life</td>
</tr>
<tr>
<td>Chronic aquatic toxicity:</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>Toxicity Data on soil:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Toxicity on other organisms:</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

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>Marine Pollutant</th>
<th>Yes. Ingredient of greatest environmental impact: 120-51-4 : (30 - 40 %) : Benzyl Benzoate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regulator</td>
<td>Class Pack Group Sub Risk UN-nr.</td>
</tr>
</tbody>
</table>

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Section 15: Regulatory Information

Additional European Regulations
- European Union (EINECS, ELINCS or NLP) 100.00% (By Wt) of the components are listed or exempt.

Additional Asian Regulations
- Australian AICS 100.00% (By Wt) of the ingredients on AICS or notified.
- Chinese IECS 100.00% (By Wt) of the ingredients on IECS.
- Japan ENCS 100.00% (By Wt) of the ingredients on ENCS, fall within the 1000 kilogram per annum exemption or have been notified.
- Korea KECL 100.00% (By Wt) of the ingredients on KECL, fall within the 100 kilogram per annum exemption or have been notified.
- New Zealand NZloc 100.00% (By Wt) of the ingredients on NZloc.
- Philippines PICCS 100.00% (By Wt) of the ingredients on PICCS.

The Status of the following ingredient(s) is NOT known for the registration lists noted;
Asian Disclosure Lists noted within <> brackets after name
- None.

Section 16: Other Information

GHS H-Statements referred to under section 3
- H225 : Highly flammable liquid and vapor
- H316 : Causes mild skin irritation
- H320 : Causes eye irritation
- H402 : Harmful to aquatic life
- H302 : Harmful if swallowed
- H318 : Causes serious eye damage
- H373 : May cause damage to organs through prolonged or repeated exposure
- H412 : Harmful to aquatic life with long lasting effects

Total Fractional Values (TFV) Risk
- (12.11) Aquatic Chronic Toxicity, Category 3
- (2.06) Acute Toxicity Oral, Category 5
- (1.32) Acute Toxicity Inhalation, Category 5
- (1.22) Eye Damage/Eye Irritation, Category 2
- (1.21) Aquatic Chronic Toxicity, Category 2
- (3.50) Sensitization, Skin, Category 1B
- (1.51) Acute Toxicity Dermal, Category 5
- (1.25) Aquatic Chronic Toxicity, Category 4
- (1.21) Aquatic Acute Toxicity, Category 1
- (1.10) Eye Damage/Eye Irritation, Category 2B

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