SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Name: Natural Vanilla Oil
   Product Code: 302-122X

1.2 Intended Use: Compound used in customer substance/mixture/product.

1.3 Supplier: Majestic Mountain Sage Inc
   2490 S 1350 W
   Nibley, 84321 - United States of America
   T 435.755.0863 - F 435.755.2108
   www.TheSage.com

1.4 Emergency Telephone Number
   No additional information available

SECTION 2: Hazards Identification

2.1 Classification of the Substance or Mixture

<table>
<thead>
<tr>
<th>Carcinogenicity</th>
<th>Category 1A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Liquids</td>
<td>Category 4</td>
</tr>
</tbody>
</table>

2.2 GHS Label Elements, Including Precautionary Statements

Emergency Overview

Signal Word: Danger

Hazard Statements
H227  Combustible liquid
H303  May be harmful if swallowed
H350  May cause cancer

Appearance: Clear to slightly hazy
Physical State: liquid
Odor: Sweet vanilla
Precautionary Statements - Response
P308+P313 If exposed or concerned: Get medical advice/attention.
P370+P378 In case of fire: Use CO₂, dry chemical, or foam for extinction.

Precautionary Statements - Storage
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Precautionary Statements - Disposal
P501 Dispose of contents/container to an approved waste disposal plant.

SECTION 3: Composition/Information on Ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vanillin</td>
<td>121-33-5</td>
<td>1-5%</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>1-5%</td>
</tr>
</tbody>
</table>

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

General Advice: If symptoms persist, call a physician.

Eye Contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eyes wide open while rinsing. If symptoms persist, call a physician.

Skin Contact: Immediately wash off with soap and water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Ingestion: Do NOT induce vomiting. Rinse mouth with water and afterwards, drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Inhalation: Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Call a physician.

Self Protection of the First Aider: Use personal protective equipment.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Main Symptoms: Hives.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to Physicians: May cause sensitization in susceptible people.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

Suitable: Use dry chemical, Carbon Dioxide (CO₂), water spray, alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable: Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

5.2 Special Hazards Arising from the Substance or Mixture

Thermal decomposition can lead to release of irritating gases and vapors. In the event of a fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion Data
Sensitivity to Mechanical Impact: None
Sensitivity to Static Discharge: Yes

5.3 Protective Equipment and Precautions for Firefighters

As in any fire, wear a self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures
Use personal protective equipment. Avoid contact with eyes and skin. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

6.2 Environmental Precautions
Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.3 Methods and Material for Containment and Cleaning Up

**Containment:** Prevent further leakage or spillage if safe to do so.

**Cleaning Up:** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains. Dam up. Take precautionary measures against static discharges.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling
Ensure adequate ventilation. Use personal protective equipment as required. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flames. No smoking. Do not breathe dust/fumes/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

7.2 Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions:** Keep out of reach of children. Keep container tightly closed in a cool, well-ventilated place. Keep away from heat and sources of ignition. Keep in properly labeled containers.

**Incompatible Products:** None known based on information supplied.
8.1 Control Parameters

**Exposure Guidelines:**
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Exposure Controls

**Engineering Controls:** Shower, eyewash stations, and ventilation systems.

8.3 Personal Protective Equipment

**Eye/Face Protection:** Tightly fitting safety goggles

**Skin and Body Protection:** Chemical resistant apron.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection must be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations:** When using, do not eat, drink or smoke. Wash contaminated clothing before reuse. Provide regular cleaning of equipment, work area and clothing.

---

9.1 Information on Basic Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** Clear to slightly hazy

**Odor:** Sweet vanilla

**Color:** Yellow
<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Melting/Freezing Point:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash Point:</td>
<td>64°C / 148°F</td>
<td>Closed cup</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limit:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure mm Hg 20°C:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity @ 25°C:</td>
<td>0.9475 - 0.9555</td>
<td>FCC Method</td>
</tr>
<tr>
<td>Specific Gravity @ 20°C:</td>
<td>0.9505 - 0.9585</td>
<td>FCC Method</td>
</tr>
<tr>
<td>Refractive Index:</td>
<td>1.4495 - 1.4535</td>
<td>FCC Method</td>
</tr>
<tr>
<td>Water Solubility:</td>
<td>Practically Insoluble</td>
<td></td>
</tr>
<tr>
<td>Solubility in Other Solvents:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>n-octanol/water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Viscosity, Kinematic:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Viscosity, Dynamic:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties:</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2 Other Information

- Softening Point: No information available
- Molecular Weight: No information available
- VOC Content (%): No information available
- Density VALUE: No information available
- Bulk Density VALUE: No information available

#### SECTION 10: Stability and Reactivity

##### 10.1 Reactivity

No information available.

##### 10.2 Chemical Stability

Stable under recommended storage conditions.

##### 10.3 Possibility of Hazardous Reactions

None under normal processing.
10.4 Conditions to Avoid
Heat, flames and sparks.

10.5 Incompatible Materials
None known based on information supplied.

10.6 Hazardous Decomposition Products
None known based on information supplied.

11.1 Information on Likely Routes of Exposure

**Product Information:** There is no data available for this product.

**Inhalation:** Avoid breathing vapor or mists.

**Eye Contact:** Irritating to eyes.

**Skin Contact:** Avoid contact with skin.

**Ingestion:** There is no data available for this product.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>7060 mg/kg (Rat)</td>
<td>-</td>
<td>124.7 mg/L (Rat) 4h</td>
</tr>
</tbody>
</table>

11.2 Information on Toxicological Effects

**Symptoms:** No information available.

11.3 Delayed and Immediate Effects as Well as Chronic Effects from Short and Long-term Exposure

**Skin Corrosion/Irritation:** Irritating to skin.

**Eye Damage/Irritation:** Irritating to eyes.

**Sensitization:** May cause sensitization by inhalation.

**Germ Cell Mutagenicity:** No information available.

**Carcinogenicity:** This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans, (Group 2B). Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage.
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>A3</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
</tbody>
</table>

**ACGIH (American Conference of Governmental Industrial Hygienists)**
A3 - Animal Carcinogen

**IARC (International Agency for Research on Cancer)**
Group 1 - Carcinogenic to Humans

**NTP (National Toxicology Program)**
Known - Known Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)** X - Present

Reproductive Toxicity: No information available.
Specific Target Organ Systemic Toxicity (Single Exposure): No information available.
Specific Target Organ Systemic Toxicity (Repeated Exposure): No information available.
Chronic Toxicity
Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage. May cause adverse liver effects. Contains a known or suspected reproductive toxin.

**Target Organ Effects:**
Blood, central nervous system, eyes, liver, reproductive system, respiratory system, skin.

**Aspiration Hazard:**
No information available

**11.4 Numerical Measures of Toxicity - Product Information**

The following values are calculated based on Chapter 3.1 of the GHS document: No data available.

**SECTION 12: Ecological Information**

**12.1 Ecotoxicity**
0.15768% of this mixture consists of component(s) of unknown hazards to the aquatic environment.
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Toxicity to Daphnia and Other Aquatic Invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vanillin 121-33-5</td>
<td>53 - 61.3: 96 h Pimephales promelas mg/L LC50 flow-through 88: 96 h Pimephales promelas mg/L LC50 static 57: 96 h Pimephales promelas mg/L LC50 semi-static</td>
<td></td>
<td></td>
<td>180: 24 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 Static 13400 - 15100: 96 h Pimephales promelas mg/L LC505 flow-through</td>
<td>EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min</td>
<td></td>
<td>9268 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static</td>
</tr>
</tbody>
</table>

### 12.2 Persistence and Degradability
No information available

### 12.3 Bioaccumulative Potential
No information available

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vanillin 121-33-5</td>
<td>1.23</td>
</tr>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>-0.32</td>
</tr>
</tbody>
</table>

### 12.4 Other Adverse Effects
No information available.
SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Waste Disposal Methods: It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

Contaminated Packaging: Do not reuse container.

SECTION 14: Transport Information

14.1 Transport Information

DOT Not regulated.

ICAO/IATA Not regulated.

IMDG/IMO Not regulated.

SECTION 15: Regulatory Information

15.1 International Inventories

TSCA Complies

DSL/NDSL Complies

EINECS/ELINCS Complies

ENCS -

IECSC Complies

KECL -

PICCS Complies

AICS Complies

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substance
IECSC - China Inventory of Existing chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
15.2 U.S. Federal Regulation

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the ACT and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**
- Acute Health Hazard: Yes
- Chronic Health Hazard: No
- Fire Hazard: Yes
- Sudden Release of Pressure Hazard: No
- Reactive Hazard: No

**Clean Water Act**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to release of this material.

15.3 U.S. State Regulations

**California Proposition 65**
This product contains the following Proposition 65 chemicals:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Prop. 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>Carcinogen Developmental</td>
</tr>
</tbody>
</table>

**U.S. State Right-to Know Regulations**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
SECTION 16: Other Information

16.1 NFPA Rating

- Health Hazard: 2
- Flammability: 2
- Instability: 0
- Physical and Chemical Hazards: *

16.2 HMIS Rating

- Health Hazard: 2
- Flammability: 2
- Physical Hazard: 0
- Personal Protection: B

WARNING/DISCLAIMER:
This ingredient(s) has not been tested, nor has it been deemed safe, for inhalation or use in electronic smoking devices, electronic nicotine delivery systems, electronic cigarettes or other similar devices (collectively “E-Cigarettes”). In supplying this ingredient, Majestic Mountain Sage instructs, and by receiving the ingredient recipient confirms, that this ingredient will not be used in connection with the manufacture and distribution of E-Cigarettes or any component thereof.

Notes:
This safety data sheet is based on the properties of the material known at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment holds no responsibility. This document is not intended for quality assurance purposes.