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

1.1 Product Name: Root Beer Flavor Oil
   Product Code: 310-125X

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 GHS Classification
   Flammable Liquid, Category 4  H227: Combustible liquid.
   Sensitization, Skin, Category 1  H317: May cause an allergic skin reaction.
   Acute Inhalation, Category 4  H332: Harmful if inhaled

2.2 Label Elements
   Symbol(s) of Product:
   ![Warning Symbol]

   Signal Word: Warning
   Possible Hazards: 5% of the mixture consists of ingredients with unknown acute toxicity.
### GHS Hazard Statements
- H227 Combustible liquid.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.

### GHS Label Precautionary Statements
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.

### SECTION 3: Composition/Information on Ingredients

#### 3.1 Substances

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>GHS Symbols</th>
<th>GHS Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl 2-hydroxybenzoate</td>
<td>119-36-8</td>
<td>25-50%</td>
<td>GHS07</td>
<td>H302; H332</td>
</tr>
<tr>
<td>Benzene, 1-methoxy-4-(1-propenyl)-(E)-</td>
<td>4180-23-8</td>
<td>2.5-10%</td>
<td>GHS07</td>
<td>H317</td>
</tr>
<tr>
<td>Orange oil</td>
<td>8008-57-9</td>
<td>2.5-10%</td>
<td>GHS02-GHS07-GHS08</td>
<td>H226; H304; H315; H317; H332</td>
</tr>
<tr>
<td>Citral</td>
<td>5392-40-5</td>
<td>1.0-2.5%</td>
<td>GHS07</td>
<td>H315; H317; H332</td>
</tr>
</tbody>
</table>

The text for GHS Hazard Statements shown above (if any) is given in the “Other Information” Section.
SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

Inhalation: Remove to fresh air and seek medical assistance if necessary.

Skin Contact: Remove contaminated clothing and shoes. Wash with mild soap and water. Seek medical attention if necessary.

Eye Contact: Remove contact lenses. Flush eyes with cool water for at least 15 minutes. If irritation persists, seek medical attention.

Ingestion: Rinse mouth. Do not induce vomiting. Drink water. Consult a physician.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

Suitable: Water spray/mist, Foam, Carbon Dioxide (CO₂), and Dry Chemical. Water may be used to cool off containers.

Unsuitable: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special Hazards Arising from the Substance or Mixture

None known.

5.3 Advice for Firefighters

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Use personal protective equipment. Evacuate personnel to safe areas. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Avoid breathing vapors, mist or gas. For personal protection see Section 8.
6.2 Environmental Precautions
Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

6.3 Methods and Materials for Containment and Cleaning Up
Contain material. Collect using solid absorbent material and place into appropriate waste container for disposal according to local regulations (See Section 13). Keep in suitable, closed containers for disposal.

7.1 Precautions for Safe Handling
For industrial use only. Use with adequate ventilation. Keep away from heat and flame.

7.2 Conditions for Safe Storage
Keep containers tightly closed in a dry, cool and well-ventilated place.

8.1 Exposure Controls
No data available.

8.2 Personal Protection

   **Respiratory Protection:** Proper ventilation, engineering controls, such as local exhaust ventilation, and if necessary, a NIOSH certified respirator with appropriate cartridge is highly recommended.

   **Skin Protection:** Chemical resistant gloves recommended.

   **Eye Protection:** Wear safety glasses with side shields or goggles.

   **Hygienic Practices:** Always observe good personal hygiene measures, such as washing your hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance:</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Odor:</td>
<td>Conforms to Standard</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>Not established</td>
</tr>
<tr>
<td>Specific Gravity (typical):</td>
<td>1.03</td>
</tr>
<tr>
<td>pH:</td>
<td>Not measured</td>
</tr>
<tr>
<td>Freeze Point, °C:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>Not measured</td>
</tr>
<tr>
<td>Solubility in Water:</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Partition Coefficient, n-octanol/water:</td>
<td>Not measured</td>
</tr>
<tr>
<td>Decomposition Temperature, °C:</td>
<td>Not measured</td>
</tr>
<tr>
<td>Initial Boiling Point, °C:</td>
<td>36°C</td>
</tr>
<tr>
<td>Explosive Limits, %:</td>
<td>Not measured</td>
</tr>
<tr>
<td>Flash Point, °C / °F (Closed Cup):</td>
<td>87°C / 188°F</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Not measured</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Not measured</td>
</tr>
<tr>
<td>Auto-Ignition Temperature, °C:</td>
<td>Not measured</td>
</tr>
<tr>
<td>Vapor Pressure, mmHg:</td>
<td>Not measured</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and Reactivity

10.1 Reactivity
The product is non-reactive under normal conditions of use, storage, and transport.

10.2 Chemical Stability
Material is stable under normal conditions.

10.3 Possibility of Hazardous Reactions
No dangerous reactions known under conditions of normal use.

10.4 Conditions to Avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible Materials
Keep away from strong oxidizing agents, heat, and open flames.
10.6 Hazardous Decomposition Products
When heated, may product unpleasant fumes and/or smoke. Combustion may produce Carbon Monoxide and/or Carbon Dioxide.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Effect of Overexposure

Inhalation: No adverse effects due to inhalation are expected under normal use.

Eye contact: Not expected to cause eye problems under normal use conditions.

Skin contact: Not expected to cause skin problems under normal use conditions.

Ingestion: Under normal use conditions this product is not expected to cause adverse health effects.

Carcinogenicity: This product does not contain any carcinogenic substances as classified by IARC, NTP, ACGIH, or OSHA.

11.2 Acute Toxicity Values
The acute effects of this product have not been tested. Data on individual components are tabulated below.

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Vapor LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>119-36-8</td>
<td>Methyl 2-hydroxybenzoate</td>
<td>887 mg/kg Rat</td>
<td>&gt;5000 mg/kg rabbit</td>
<td>5000</td>
</tr>
<tr>
<td>4180-23-8</td>
<td>Benzene, 1-methoxy-4-(1-propenyl)-,(E)-</td>
<td>2090 mg/kg Rat</td>
<td>N.I.</td>
<td>N.I.</td>
</tr>
<tr>
<td>8008-57-9</td>
<td>Orange oil</td>
<td>4400 mg/kg Rat</td>
<td>&gt;2000</td>
<td>&gt;5000</td>
</tr>
<tr>
<td>5392-40-5</td>
<td>Citral</td>
<td>4960 mg/kg Rat</td>
<td>2250 mg/kg rabbit</td>
<td>5000</td>
</tr>
</tbody>
</table>

N.I.= No information
12.1 Ecological Information
Normal recommended use releases little of the product to the environment. Responsible manufacturing application should include provision for spill containment and measure to control loss of volatiles.

13.1 Waste Treatment Methods
Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into the sewer/water supplies. Do not contaminate ponds, waterways or ditches with material or used container. Dispose of material in accordance with applicable federal, state and local regulations.

14.1 Transport Information

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN/NA Number</th>
<th>Proper Shipping Name</th>
<th>Class</th>
<th>Packing Group</th>
<th>Label</th>
<th>Additional Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHMSA/DOT</td>
<td>NA1993</td>
<td>Combustible Liquid, n.o.s.</td>
<td>3</td>
<td>III</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>ICAO/IATA</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Not regulated</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Not regulated</td>
</tr>
<tr>
<td>CANUTEC/TDG</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Not regulated</td>
</tr>
<tr>
<td>ADR/RID</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

15.1 Federal Regulations

SARA
This product **DOES** contain ingredient(s) listed on the SARA list.

CERCLA
This product **DOES** contain ingredient(s) listed on the CERCLA list.
EPCRA
This product **DOES** contain ingredient(s) listed on the CERCLA list.

CAA
This product **DOES NOT** contain ingredient(s) listed on the CAA list.

15.2 State Regulations

**California Proposition 65**
To the best of our knowledge and belief, this flavor is **NOT FORMULATED** with chemicals known to cause cancer or reproductive toxicity, as per the State of California Safe Drinking Water and Toxic Enforcement Act of 1986.

### SECTION 16: Other Information

16.1 Text for GHS Hazard Statements Shown in Section 3

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>H304: May be fatal if swallowed and enters airways.</td>
<td>H315: Causes skin irritation.</td>
</tr>
<tr>
<td>H332: Harmful if inhaled.</td>
<td>H317: May cause an allergic skin reaction.</td>
</tr>
</tbody>
</table>

**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.

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.