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

1.1 Product Name: Huckleberry Flavor Oil
   Product Code: 310-121X

1.2 Intended Use: Compound used is 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 3 H226: Flammable liquid and vapor.

2.2 Label Elements

   Symbol(s) of Product
   ![Flame symbol]

   Signal Word: Warning

   Possible Hazards: 5% of the mixture consists of ingredients of unknown acute toxicity.
GHS Hazard Statements
H226 Flammable liquid and vapor.

GHS Precautionary Statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground/bond container and receiving .
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.

SECTION 3: Composition/Information on Ingredients

3.1 Chemical Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Wt. %</th>
<th>GHS Symbols</th>
<th>GHS Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylacetate</td>
<td>141-78-6</td>
<td>2.5-10</td>
<td>GHS02; GHS07</td>
<td>H225; H319; H332; H336</td>
</tr>
<tr>
<td>Ethyl butyrate</td>
<td>105-54-4</td>
<td>1.0-2.5</td>
<td>GHS02</td>
<td>H226</td>
</tr>
<tr>
<td>Vanillin</td>
<td>121-33-5</td>
<td>1.2-2.5</td>
<td>GHS07</td>
<td>H302; H319</td>
</tr>
<tr>
<td>Benzaldehyde</td>
<td>100-52-7</td>
<td>0.1-1.0</td>
<td>GHS07</td>
<td>H302; H312; H316</td>
</tr>
</tbody>
</table>

The text for GHS Hazard statement shown above (if any) is given in Section 16.

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

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

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

Eye Exposure: Remove contact lenses. Flush immediately with cool water for at least 15 minutes. Contact physician if symptoms persist.
Ingestion: Rinse mouth with water. 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 Precautionary Measures
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 Measures
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling
Keep away from heat and flame. Use with adequate ventilation. For industrial use only.
7.2 Conditions for Safe Storage, Including Any Incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8: Exposure Controls/Personal Protection

8.1 Personal Protective Equipment

Respiratory Protection: Proper ventilation, engineering controls, such as local exhaust ventilation, and if necessary, a NIOSH certified respirator with appropriate cartridges 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 our 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>Appearance:</td>
<td>A clear liquid</td>
</tr>
<tr>
<td>Physical State:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor:</td>
<td>Conforms to Standard</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>0.95</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>Not Soluble</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>39°C / 102°F</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Auto-Ignition Temperature, °C:</td>
<td>Not Measured</td>
</tr>
</tbody>
</table>
SECTION 10: Stability and Reactivity

10.1 Stability
Material is stable under normal conditions.

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

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

10.4 Incompatibility
Keep away from strong oxidizing agents, heat and open flames.

10.5 Hazardous Decomposition Products
When heated, may produce unpleasant fumes and/or smoke. Combustion may produce Carbon Monoxide and/or Carbon Dioxide.

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

SECTION 11: Toxicological Information

11.1 Toxicological Effects

Effect of Overexposure

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

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

Eye Contact: Not expected to cause eye 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>141-78-6</td>
<td>Ethylacetate</td>
<td>5620 mg/kg Rat</td>
<td>&gt;18000 mg/kg Rabbit</td>
<td>N.I.</td>
</tr>
<tr>
<td>105-54-4</td>
<td>Ethyl butyrate</td>
<td>13000 mg/kg Rat</td>
<td>N.I.</td>
<td>N.I.</td>
</tr>
<tr>
<td>121-33-5</td>
<td>Vanillin</td>
<td>1580 mg/kg Rat</td>
<td>&gt;5010 mg/kg Rabbit</td>
<td>5000</td>
</tr>
<tr>
<td>100-52-7</td>
<td>Benzaldehyde</td>
<td>1292 mg/kg Rat</td>
<td>&gt;1250 mg/kg Rabbit</td>
<td>N.I.</td>
</tr>
</tbody>
</table>

N.I. = No Information

SECTION 12: Ecological Information

12.1 Ecological Information
Normal recommended use releases little of the product to the environment. Responsible manufacturing applications should include provisions for spill containment and measures to control loss of volatiles.

SECTION 13: Disposal Considerations

13.1 Disposal Methods
Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with material or use container. Dispose of material in accordance with applicable federal, state and local regulations.
### SECTION 14: Transport Information

#### 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>
</tr>
</thead>
<tbody>
<tr>
<td>PHMSA/DOT</td>
<td>UN1197</td>
<td>Extracts, Flavoring, Liquid</td>
<td>3</td>
<td>II</td>
<td>3</td>
</tr>
<tr>
<td>ICAC/IATA</td>
<td>UN1197</td>
<td>Extracts, Flavoring, Liquid</td>
<td>3</td>
<td>II</td>
<td>3</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>UN1197</td>
<td>Extracts, Flavoring, Liquid</td>
<td>3</td>
<td>II</td>
<td>3</td>
</tr>
<tr>
<td>CANUTEC/TDG</td>
<td>UN1197</td>
<td>Extracts, Flavoring, Liquid</td>
<td>3</td>
<td>II</td>
<td>3</td>
</tr>
<tr>
<td>ADR/RID</td>
<td>UN1197</td>
<td>Extracts, Flavoring, Liquid</td>
<td>3</td>
<td>II</td>
<td>3</td>
</tr>
</tbody>
</table>

### SECTION 15: Regulatory Information

#### 15.1 Chemical Inventories

<table>
<thead>
<tr>
<th>Country</th>
<th>Chemical Inventories</th>
<th>Ingredients are Listed or Exempt from Listing Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States of America</td>
<td>TSCA</td>
<td>Yes</td>
</tr>
<tr>
<td>European Union</td>
<td>EINECS/ELINCS/REACH</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>DSL/NDSL/ICL</td>
<td>Yes</td>
</tr>
<tr>
<td>Australia</td>
<td>AICS</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>PICCS</td>
<td>Yes</td>
</tr>
<tr>
<td>China</td>
<td>IECSC/IECIC</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan</td>
<td>ENCS/ISHL</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>KECL/KECI/K-REACH</td>
<td>Yes</td>
</tr>
</tbody>
</table>
16.1 Text for GHS Hazard Statement shown in Section 3

H225: Highly flammable liquid and vapor  
H302: Harmful if swallowed  
H319: Causes serious eye irritation

H226: Flammable liquid and vapor  
H312: Harmful in contact with skin  
H336: May cause drowsiness or dizziness

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

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.