

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

- 1.1 Product Name:** Juniper Berry Essential Oil  
**Product Code:** 302-206X
- 1.2 Intended Use:** Compound used in customer substance/mixture/product.
- 1.3 Supplier:** Majestic Mountain Sage Inc  
2490 S 1350 W  
Nibley, Utah 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**

|                                       |   |
|---------------------------------------|---|
| Flammable Liquids, Category 3         | H226: Flammable liquid and vapor.                           |
| Acute Oral Toxicity, Category 4       | H302: Harmful if swallowed.                                 |
| Acute Dermal Toxicity, Category 5     | H313: May be harmful in contact with skin.                  |
| Skin Corrosion/Irritation, Category 2 | H315: Causes skin irritation.                               |
| Skin Sensitization, Category 1        | H317: May cause an allergic skin reaction.                  |
| Eye Damage/Irritation, Category 2A    | H319: Causes serious eye irritation.                        |
| Acute Aquatic Toxicity, Category 1    | H400: Very toxic to aquatic life.                           |
| Chronic Aquatic Toxicity, Category 1  | H410: Very toxic to aquatic life with long lasting effects. |

**Classification According to EU Directives 67/548/EEC or 1999/45/EC**

*For the full text of the R-phrases mentioned in this Section, see Section 16.*

**Symbol(s):** Xi - Irritant  
N - Dangerous for the environment

**R-Code(s):** R10 - R43 - N;R50-53

## 2.2 Label Elements, Including Precautionary Statements

### Hazard Pictograms



**Signal Word:** Warning.

### Hazard Statements

|      |   |
|------|---|
| H226 | Flammable liquid and vapor.                           |
| H302 | Harmful if swallowed.                                 |
| H313 | May be harmful in contact with skin.                  |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H319 | Causes serious eye irritation.                        |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |

### Precautionary Statements

|      |   |
|------|---|
| P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking.          |
| P280 | Wear eye protection/face protection.  |
| P321 | Specific treatment (See supplemental first aid instructions on this label). |

## 2.3 Hazards Not Otherwise Classified (HNOC) and Other Information

No information available.

## SECTION 3: Composition/Information on Ingredients

### 3.1 Substances

| Chemical Name | EC Number | CAS Number | Weight % | Classification  |
|---------------|-----------|------------|----------|---|
| Pinenes       | 201-291-9 | 80-56-8    | 30-50%   | H226; H303; H304; H316; H317; H400; H410<br>R10, XI; R43, N; R50/53, XN; R65; |
| Terpinen-4-ol | 209-235-5 | 562-74-3   | 5-10%    | H227; H302; H316; H319; H402<br>XN; R22, XI; R38                              |
| Limonene      | 227-813-5 | 5959-27-5  | 1-5%     | H226; H304; H316; H317; H400; H410<br>R10, XI; R38, XI; R43, N; R50/23;       |

For the full text of the R-Phrases and H-Statements, see Section 16.

## SECTION 4: First Aid Measures

### 4.1 Description of First Aid Measures

- General Advice:** Immediate medical attention is required. Show this material safety data sheet to the doctor in attendance. If symptoms persists, 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:** Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
- Ingestion:** Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

**Inhalation:** Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, call a physician.

**Self Protection of the First Aider:** Remove all sources of ignition. Use personal protective equipment.

#### **4.2 Most Important Symptoms and Effects, Both Acute and Delayed**

**Main Symptoms:** No information available.

#### **4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Note to Physicians:** Treat symptomatically. May cause sensitization in susceptible persons.

### **SECTION 5: Firefighting Measures**

#### **5.1 Extinguishing Media**

**Suitable:** Use dry chemical, Carbon Dioxide (CO<sub>2</sub>), alcohol-resistant foam.

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

#### **5.2 Special Hazards Arising from the Substance or Mixture**

No information available.

#### **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**

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

## 6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

## 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 (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically and collect in suitable container for disposal.

|  |
|--|
| <b>SECTION 7: Handling and Storage</b> |
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## 7.1 Precautions for Safe Handling

Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Keep away from heat, sparks and open flame. No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition or organic vapors).

## 7.2 Conditions for Safe Storage, Including Any Incompatibilities

Keep tightly closed in a dry, cool, and well-ventilated place. Keep away from heat. Keep in properly labeled containers.

**SECTION 8: Exposure Controls/Personal Protection**

**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.

| <b>Chemical Name</b>  | <b>European Union</b> | <b>The United Kingdom</b> | <b>France</b> | <b>Spain</b>                                    | <b>Germany</b>  |
|-----------------------|-----------------------|---------------------------|---------------|---|---|
| Pinenes<br>80-56-8    |                       |                           |               | VLA-ED: 20 ppm<br>VLA-ED: 113 mg/m <sup>3</sup> |   |
| Limonene<br>5989-27-5 |                       |                           |               |   | MAK: 20 ppm<br>MAK: 110 mg/m <sup>3</sup><br>Ceiling/Peak: 40 ppm<br>Ceiling/Peak: 220 mg/m <sup>3</sup><br>TWA: 20 ppm<br>TWA: 110 mg/m <sup>3</sup> |

| <b>Chemical Name</b>  | <b>Italy</b> | <b>Portugal</b> | <b>The Netherlands</b> | <b>Finland</b>   | <b>Denmark</b> |
|-----------------------|--------------|-----------------|------------------------|--|----------------|
| Pinenes<br>80-56-8    |              | TWA: 20 ppm     |                        |  |                |
| Limonene<br>5989-27-5 |              |                 |                        | TWA: 25 ppm<br>mg/m <sup>3</sup> STEL: 50 ppm<br>STEL: 280 mg/m <sup>3</sup> |                |

| Chemical Name         | Austria | Sweden                                     | Switzerland  | Poland | Norway   |
|-----------------------|---------|--|--|--------|--|
| Pinenes<br>80-56-8    |         | 25 ppm<br>NGV 150<br>mg/m <sup>3</sup> NGV |  |        | TWA: 25 ppm<br>TWA: 140 mg/m <sup>3</sup><br>STEL: 37.5 ppm<br>STEL: 175 mg/m <sup>3</sup> |
| Limonene<br>5989-27-5 |         |  | STEL: 40 ppm<br>STEL: 220 mg/m <sup>3</sup><br>MAK: 20 ppm<br>MAK: 110 mg/m <sup>3</sup> |        | TWA: 25 ppm<br>TWA: 140 mg/m <sup>3</sup><br>STEL: 37.5 ppm<br>STEL: 175 mg/m <sup>3</sup> |

**Derived No Effect Level (DNEL):** No information available.

**Predicted No Effect Concentration (PNEC):** No information available.

## 8.2 Exposure Controls

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas.

## 8.3 Personal Protective Equipment

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

**Skin and Body Protection:** Protective gloves. Antistatic boots. Wear fire/flame resistant/retardant clothing. Chemical resistant apron. Long sleeved clothing.

**Respiratory Protection:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**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.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

|                                    |                                   |
|------------------------------------|-----------------------------------|
| <b>Physical State @ 20 °C:</b>     | Liquid                            |
| <b>Appearance:</b>                 | Clear                             |
| <b>Odor:</b>                       | Characteristic of juniper berries |
| <b>Odor Threshold:</b>             | No information available          |
| <b>Color:</b>                      | Colorless to pale greenish-yellow |
| <b>pH:</b>                         | No information available          |
| <b>Melting Point/Range:</b>        | No information available          |
| <b>Freezing Point:</b>             | No information available          |
| <b>Initial Boiling Point:</b>      | No information available          |
| <b>Boiling Point/Range:</b>        | No information available          |
| <b>Flash Point:</b>                | 106 °F / 41 °C                    |
| <b>Evaporation Rate:</b>           | No information available          |
| <b>Flammability Limits in Air:</b> | No information available          |
| <b>Explosive Properties:</b>       | No information available          |
| <b>Oxidizing Properties:</b>       | No information available          |
| <b>Vapor Pressure @ 20 °C:</b>     | No information available          |
| <b>Vapor Density:</b>              | No information available          |
| <b>Specific Gravity @ 25 °C:</b>   | 0.854 - 0.879                     |
| <b>Specific Gravity @ 20 °C:</b>   | 0.857 - 0.882                     |
| <b>Refractive Index:</b>           | 1.474 - 1.484                     |
| <b>Water Solubility:</b>           | Insoluble in water                |
| <b>Solubility:</b>                 | No information available          |
| <b>Partition Coefficient:</b>      | No information available          |
| <b>Autoignition Temperature:</b>   | No information available          |
| <b>Decomposition Temperature:</b>  | No information available          |
| <b>Viscosity, Dynamic:</b>         | No information available          |
| <b>Molecular Weight:</b>           | No information available          |
| <b>VOC Content (%):</b>            | 45                                |

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical Stability

Stable under normal conditions.

### 10.3 Possibility of Hazardous Reactions

No information available.



#### 10.4 Conditions to Avoid

Heat, flames and sparks.

#### 10.5 Incompatible Materials

No materials to be especially mentioned.

#### 10.6 Hazardous Decomposition Products

None under normal use conditions.

### SECTION 11: Toxicological Information

#### 11.1 Information on Toxicological Effects and Likely Routes of Exposure

**Inhalation:** There is no data available for this product.  
**Eye Contact:** There is no data available for this product.  
**Skin Contact:** There is no data available for this product.  
**Ingestion:** There is no data available for this product.  
**Acute Toxicity:** 100% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated bases on Chapter 3.1 of the GHS document.

**Oral:** 1,973.00 mg/kg

**Dermal:** 3,793.00 mg/kg

| Chemical Name | Oral LD50        | Dermal LD50         | LC50 Inhalation |
|---------------|------------------|---------------------|-----------------|
| Pinenes       | 2100 mg/kg (Rat) | 5000 mg/kg (Rat)    | -               |
| Terpinen-4-ol | 1300 mg/kg (Rat) | 2500 mg/kg (Rabbit) | -               |
| Limonene      | 4400 mg/kg (Rat) | 2000 mg/kg (Rabbit) | -               |

**Skin Corrosion/Irritation:** No information available.  
**Eye Damage/Irritation:** No information available.  
**Sensitization:** No information available.  
**Germ Cell Mutagenicity:** No information available.  
**Carcinogenicity:** No information available.  
**Specific Target Organ Systemic Toxicity (Single Exposure):** No information available.  
**Specific Target Organ Systemic Toxicity (Repeated Exposure):** No information available.  
**Target Organ Effects:** No information available.  
**Aspiration Hazard:** No information available.

## SECTION 12: Ecological Information

### 12.1 Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| Chemical Name | Toxicity to Algae | Toxicity to Fish   | Toxicity to Daphnia and Other Aquatic Invertebrates |
|---------------|-------------------|--|---|
| Pinenes       |                   | 0.28: 96 h Pimephales promelas mg/L LC50 static  | 41: 48 h Daphnia magna mg/L LC50                    |
| Limonene      |                   | 0.619-0.796: 96 h Pimephales promelas mg/L LC50 flow-through<br>35: 96 h Oncorhynchus mykiss mg/L LC50 |   |

### 12.2 Persistence and Degradability

No information available.

### 12.3 Bioaccumulative Potential

No information available.

| Chemical Name | log Pow |
|---------------|---------|
| Pinenes       | 4.1     |

### 12.4 Mobility in Soil

No information available.

### 12.5 Results of PBT and vPvB Assessment

No information available.

### 12.6 Other Adverse Effects

No information available.

## SECTION 13: Disposal Considerations

### 13.1 Waste Treatment Methods

|                                |  |
|--------------------------------|--|
| <b>Waste Disposal Methods:</b> | Dispose of in accordance with local regulations.   |
| <b>Contaminated Packaging:</b> | Empty containers should be taken to an approved waste handling site for recycling or disposal. |

## SECTION 14: Transport Information

### 14.1 Transport Information

|                              |   |
|------------------------------|---|
| <b><u>DOT</u></b>            | No information available.   |
| <b><u>IMDG/IMO</u></b>       |   |
| <b>Proper Shipping Name:</b> | Flammable liquid, N.O.S. (Pinenes, limonene)  |
| <b>Hazard Class:</b>         | 3   |
| <b>UN/ID Number:</b>         | 1993  |
| <b>Packing Group:</b>        | III   |
| <b>Marine Pollutant:</b>     | This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO. |
| <b><u>ICAO/IATA</u></b>      |   |
| <b>UN/ID Number:</b>         | 1993  |
| <b>Proper Shipping Name:</b> | Flammable liquid, N.O.S. (Pinenes, limonene)  |
| <b>Hazard Class:</b>         | 3   |
| <b>Packing Group:</b>        | III   |
| <b>ERG Code:</b>             | 128   |

## SECTION 15: Regulatory Information

### 15.1 International Regulations

#### International Inventories

|                      |          |
|----------------------|----------|
| <b>TSCA</b>          | Complies |
| <b>DSL/NDSL</b>      | Complies |
| <b>EINECS/ELINCS</b> | Complies |
| <b>ENCS</b>          | Complies |
| <b>IECSC</b>         | Complies |
| <b>KECL</b>          | -        |
| <b>PICCS</b>         | Complies |
| <b>AICS</b>          | 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

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

## SECTION 16: Other Information

### 16.1 Full Text of H-Statements Referred to Under Sections 2 and 3

H226: Flammable liquid and vapor.  
H302: Harmful if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H316: Causes mild skin irritation.  
H319: Causes serious eye irritation.  
H402: Harmful to aquatic life.

H227: Combustible liquid.  
H303: May be harmful if swallowed.  
H313: May be harmful in contact with skin.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

## 16.2 Full Text of Risk Combination Phrases

R10: Flammable.

R38: Irritating to skin.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R22: Harmful if swallowed.

R43: May cause sensitization by skin contact.

R65: Harmful: may cause lung damage if swallowed.

### **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.