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

1.1 Product Name: Lemon Zinger Fragrance Oil  
Product Code: 303-100X  

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  
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  
Acute Toxicity Oral, Category 5  
Aspiration Hazard, Category 1  
Acute Toxicity Dermal, Category 5  
Skin Corrosion/Irritation, Category 2  
Sensitization, Skin, Category 1B  
Eye Damage/Irritation, Category 2A  
Acute Toxicity Inhalation, Category 5  
Target Organ Systemic Toxicity Single Exposure, Category 3-NE  
Aquatic Chronic Toxicity, Category 2

H227: Combustible liquid.  
H303: May be harmful if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H313: May be harmful in contact with skin.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H333: May be harmful if inhaled.  
H336: May cause drowsiness or dizziness.  
H411: Toxic to aquatic life with long lasting effects.
### Classification OSHA (Provision 1910.1200 of title 29)

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>Class IIIA Combustible Liquid.</td>
</tr>
<tr>
<td>Acute Dermal/Eye</td>
<td>12: Causes moderate skin irritation.</td>
</tr>
<tr>
<td></td>
<td>16: Causes moderate eye irritation.</td>
</tr>
<tr>
<td>Acute Inhalation</td>
<td>23: May cause respiratory tract irritation.</td>
</tr>
<tr>
<td>Acute Oral</td>
<td>3: May be harmful if swallowed or is aspirated into the lungs.</td>
</tr>
<tr>
<td>Sensitization/Allergic Response</td>
<td>31: May cause allergic skin reaction.</td>
</tr>
<tr>
<td>Target Organ Effects</td>
<td>26: Prolonged or repeated ingestion may cause damage to: kidneys, liver.</td>
</tr>
<tr>
<td></td>
<td>28: Prolonged or repeated dermal exposure may cause damage to: kidneys, skin.</td>
</tr>
</tbody>
</table>

### Carcinogenicity
This mixture contains ingredients identified as carcinogens, at 0.1% or greater, by the following: None [X] ACGIH [ ] IARC [ ] NTP [ ] OSHA [ ]

### 2.2 Label Elements

#### Labeling (REGULATION (EC) No 1272/2008)

**Hazard Pictograms**

- ![](image)
- ![image]
- ![image]

**Signal Word:** Danger

**Hazard Statements**

- H227 Combustible liquid.
- H303 May be harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H313 May be harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H333 May be harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
Precautionary Statements

Prevention:
P233 Keep container tightly closed.
P235 Keep cool.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.

Response:
P301+P310+P331 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
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.
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P362 Take off contaminated clothing and wash before reuse.
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 # Ingredient</th>
<th>EC#</th>
<th>Conc. Range</th>
<th>GHS Class.</th>
<th>OSHA Class.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, petroleum, hydrotreated light</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64742-47-8</td>
<td>265-149-8</td>
<td>30-40%</td>
<td>H227; H304; H336; H401; H411</td>
<td>3</td>
</tr>
<tr>
<td>Lemon oil terpenes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>68917-33-9</td>
<td>284-515-8</td>
<td>10-20%</td>
<td>H226; H304; H315; H400; H410</td>
<td>12, 3, 31</td>
</tr>
<tr>
<td>Benzyl Benzoate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120-51-4</td>
<td>204-402-9</td>
<td>5-10%</td>
<td>H302; H313; H400; H411</td>
<td>28, 3</td>
</tr>
<tr>
<td>Linalool</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>78-70-6</td>
<td>201-134-4</td>
<td>5-10%</td>
<td>H227; H303; H315; H317; H319; H402</td>
<td>12, 26</td>
</tr>
<tr>
<td>Hydrocarbons, terpene processing by-products</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>98-55-5</td>
<td>202-680-6</td>
<td>2-5%</td>
<td>H227; H303; H315; H319; H401</td>
<td>11, 15, 23</td>
</tr>
<tr>
<td>alpha-Terpineol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>54830-99-8</td>
<td>259-367-2</td>
<td>1-2%</td>
<td>H303; H316; H402</td>
<td></td>
</tr>
<tr>
<td>Acetoxydihydrodicyclopentadiene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>106-25-2</td>
<td>203-378-7</td>
<td>1-2%</td>
<td>H303; H315; H317; H319; H401</td>
<td>15</td>
</tr>
<tr>
<td>Nerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>112-31-2</td>
<td>203-957-4</td>
<td>1-2%</td>
<td>H227; H316; H319; H401; H412</td>
<td>11, 15</td>
</tr>
<tr>
<td>Decanal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 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 Contact:** Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

**Skin Contact:** 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/Effects, 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”.

---

<table>
<thead>
<tr>
<th>CAS # Ingredient</th>
<th>EC#</th>
<th>Conc. Range</th>
<th>GHS Class.</th>
<th>OSHA Class.</th>
</tr>
</thead>
<tbody>
<tr>
<td>110-41-8 2-Methylundecanal</td>
<td>203-765-0</td>
<td>0.1-1.0%</td>
<td>H227; H315; H317; H402; H410</td>
<td></td>
</tr>
<tr>
<td>106-24-1 Geraniol</td>
<td>203-377-1</td>
<td>0.1-1.0%</td>
<td>H303; H315; H317; H318; H402</td>
<td>11, 15, 31</td>
</tr>
<tr>
<td>115-95-7 Linalyl Acetate</td>
<td>204-116-4</td>
<td>0.1-1.0%</td>
<td>H227; H315; H317; H320; H402</td>
<td></td>
</tr>
</tbody>
</table>

See Section 16 for full text of GHS classification codes
Total Hydrocarbon Content (% w/w) = 45.30
SECTION 5: Firefighting 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 plastic and 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

Exposure Limits: Contains no substances with occupational exposure limit values.

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: Colorless
Viscosity: Liquid
Freezing Point: Not determined
Boiling Point: Not determined
Melting Point: Not determined
Flashpoint (CCCFP): 160°F (71.11°C)
Auto Flammability: Not determined
Explosive Properties: None expected
SECTION 10: Stability and Reactivity

10.1 Reactivity
None.

10.2 Chemical Stability
Stable.

10.3 Possibility of Hazardous Reactions
None known.

10.4 Conditions to Avoid
None known.

10.5 Incompatible Materials
Strong oxidizing agents, strong acids, and alkalis.

10.6 Hazardous Decomposition Products
None known.

SECTION 11: Toxicological Information

11.1 Toxicological Effects
Acute Toxicity Estimates (ATEs) based on individual Ingredient Toxicity Data utilizing the “Additivity Formula.”

Acute Toxicity-Oral-(Rat) mg/kg (LD50: 3,636.36) May be harmful if swallowed.
Acute Toxicity-Dermal (Rabbit) mg/kg (LD50: 3,489.36) May be harmful in contact with skin.
Acute Toxicity-Inhalation (Rat) mg/L/4hr (LC50: 36.19) May be harmful if inhaled.
Skin Corrosion/Irritation Causes skin irritation.
Serious Eye Damage/Irritation Causes serious eye irritation.
Respiratory Sensitization Not classified - the classification criteria are not met.
Skin Sensitization May cause an allergic skin reaction.
Germ Cell Mutagenicity Not classified - the classification criteria are not met.
SECTION 12: Ecological Information

12.1 Toxicity

Acute Aquatic Toxicity: Not classified - the classification criteria are not met.
Chronic Aquatic Toxicity: Toxic to aquatic life with long lasting effects.
Toxicity Data on Soil: No data available.
Toxicity on Other Organisms: No data available.

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 Considerations

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

#### 14.1 Transport Information

<table>
<thead>
<tr>
<th>Regulator</th>
<th>Class</th>
<th>Pack Group</th>
<th>Sub Risk</th>
<th>UN-Nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U.S. DOT (Non-Bulk)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemicals NOI</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ADR/RID (International Road/Rail)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmentally Hazardous Substance, Liquid, n.o.s.</td>
<td>9</td>
<td>III</td>
<td></td>
<td>UN3082</td>
</tr>
<tr>
<td><strong>IATA (Air Cargo)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmentally Hazardous Substance, Liquid, n.o.s.</td>
<td>9</td>
<td>III</td>
<td></td>
<td>UN3082</td>
</tr>
<tr>
<td><strong>IMDG (Sea)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmentally Hazardous Substance, Liquid, n.o.s.</td>
<td>9</td>
<td>III</td>
<td></td>
<td>UN3082</td>
</tr>
</tbody>
</table>

### SECTION 15: Regulatory Information

#### 15.1 U.S. Federal Regulations

**TSCA (Toxic Substance Control Act)**
All components of the substance/mixture are listed or exempt.

**40 CFR (EPCRA, SARA, CERCLA AND CAA)**
This product contains NO components of concern.

#### 15.2 U.S. State Regulations

**California Proposition 65 Warning**
This product contains the following components:
123-35-3 (NFS) 204-622-5 0.1-1.0% beta-Myrcene (NFS)

#### 15.3 Canadian Regulations

**DSL/NDSL**
100.00% of the components are listed or exempt.
SECTION 16: Other Information

16.1 GHS H-Statements Referred to Under Section 3

H226: Flammable liquid and vapor  H302: Harmful if swallowed
H316: Causes mild skin irritation  H318: Causes serious eye damage
H320: Causes eye irritation  H400: Very toxic to aquatic life
H401: Toxic to aquatic life  H402: Harmful to aquatic life
H410: Very toxic to aquatic life with long lasting effects  H412: Harmful to aquatic life with long lasting effects

16.2 Total Fractional Values

(TFV) Risk
(4.53) Aspiration Hazard, Category 1
(63.75) Sensitization, Skin, Category 1B
(1.57) Target Organ Systemic Toxicity - Single Exposure, Category 3-NE
(2.58) Skin Corrosion/Irritation, Category 2
(1.95) Eye Damage/Eye Irritation, Category 2A
(5.99) Aquatic Chronic Toxicity, Category 2

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.