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

1.1 Product Name: Apple Jack Fragrance Oil
   Product Code: 303-257X

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 H227: Combustible liquid
- Acute Toxicity Oral, Category 5 H303: May be harmful if swallowed
- Aspiration Hazard, Category 1 H304: May be fatal if swallowed and enters airways
- Skin Corrosion/Irritation, Category 2 H315: Causes skin irritation
- Sensitization, Skin, Category 1A H317: May cause an allergic skin reaction
- Eye Damage/Eye Irritation, Category 2A H319: Causes serious eye irritation
- Acute Toxicity Inhalation, Category 5 H333: May be harmful if inhaled
- Aquatic Acute Toxicity, Category 1 H400: Very toxic to aquatic life
- Aquatic Chronic Toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects
**Classification OSHA (Provision 1910.1200 of title 29)**

Flammability  
Class IIIA Combustible Liquid

Acute Dermal/Eye  
12: Causes moderate skin irritation  
16: Causes eye irritation  
9: Harmful if absorbed though the skin

Acute Oral  
2: Harmful if swallowed

Genotoxicity  
36: Suspected of causing genetic defects

Sensitization/Allergic Response  
31: May cause allergic skin reaction

Target Organ Effects  
26: Prolonged or repeated ingestion may cause damage to: kidneys, liver, spleen, blood, stomach, nasal cavity, bile duct.  
28: Prolonged or repeated Dermal Exposure may cause damage to: kidneys, skin.

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**

![Pictograms]

**Signal Word:** Danger

**Hazard Statements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H227</td>
<td>Combustible liquid</td>
</tr>
<tr>
<td>H303</td>
<td>May be harmful if swallowed</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H333</td>
<td>May be harmful if inhaled</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>
Precautionary Statements

Prevention:
P235 Keep cool
P264 Wash hands thoroughly after handling
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
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 #</th>
<th>Ingredient</th>
<th>EC#</th>
<th>Conc. Range</th>
<th>GHS Class.</th>
<th>OSHA Class.</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-51-4</td>
<td>Benzyl Benzoate</td>
<td>204-402-9</td>
<td>20-30%</td>
<td>H302; H313; H400; H411</td>
<td>28, 3</td>
</tr>
<tr>
<td>8008-57-9</td>
<td>Citrus aurantium dulcis (Orange) oil</td>
<td>232-433-8</td>
<td>20-30%</td>
<td>H226; H304; H315; H400; H410</td>
<td>12, 3, 31</td>
</tr>
<tr>
<td>97-53-0</td>
<td>Eugenol</td>
<td>202-589-1</td>
<td>10-20%</td>
<td>H303; H316; H317; H319; H401</td>
<td>11, 15, 31</td>
</tr>
<tr>
<td>88-41-5</td>
<td>2-t-Butylcyclohexyl acetate</td>
<td>201-828-7</td>
<td>10-20%</td>
<td>H227; H303; H316; H401; H411</td>
<td>12, 2</td>
</tr>
<tr>
<td>101-39-3</td>
<td>alpha-Methylcinnamaldehyde</td>
<td>202-938-8</td>
<td>5-10%</td>
<td>H303; H317; H401</td>
<td>31</td>
</tr>
<tr>
<td>8015-91-6</td>
<td>Oil Cinnamon leaf Ceylon</td>
<td>283-476-0</td>
<td>2-5%</td>
<td>H227; H303; H313; H316; H319; H401; H412</td>
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<tr>
<td>91-64-5</td>
<td>Coumarin</td>
<td>202-086-7</td>
<td>2-5%</td>
<td>H302; H317; H402</td>
<td>12, 15, 2, 26, 31, 9</td>
</tr>
<tr>
<td>122-97-4</td>
<td>3-Phenyl-1-propanol</td>
<td>204-587-6</td>
<td>2-5%</td>
<td>H303; H313; H314; H318; H402</td>
<td>11, 15</td>
</tr>
<tr>
<td>60-12-8</td>
<td>phenethyl alcohol</td>
<td>200-456-2</td>
<td>1-2%</td>
<td>H302; H313; H316; H319</td>
<td>11, 15, 3</td>
</tr>
<tr>
<td>CAS #</td>
<td>EC#</td>
<td>Conc. Range</td>
<td>GHS Class.</td>
<td>OSHA Class.</td>
<td></td>
</tr>
<tr>
<td>----------</td>
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<td></td>
</tr>
<tr>
<td>105-53-3</td>
<td>203-305-9</td>
<td>1-2%</td>
<td>H227; H319; H402</td>
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<td></td>
</tr>
<tr>
<td><strong>Diethyl malonate</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>104-55-2</td>
<td>203-213-9</td>
<td>1-2%</td>
<td>H303; H312; H315; H317; H319; H401</td>
<td>10, 12, 16, 26, 31, 36</td>
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<tr>
<td><strong>Cinnamal</strong></td>
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<tr>
<td>1222-05-5</td>
<td>214-946-9</td>
<td>1-2%</td>
<td>H316; H400; H410</td>
<td>11, 15</td>
<td></td>
</tr>
<tr>
<td><strong>Hexamethylindanopyran</strong></td>
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<tr>
<td>123-11-5</td>
<td>204-602-6</td>
<td>1-2%</td>
<td>H303; H402</td>
<td>11, 15</td>
<td></td>
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<tr>
<td><strong>Anisaldehyde</strong></td>
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<tr>
<td>103-26-4</td>
<td>203-093-8</td>
<td>0.1-1.0%</td>
<td>H303; H317</td>
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<tr>
<td><strong>Methyl cinnamate</strong></td>
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<tr>
<td>87-44-5</td>
<td>201-746-1</td>
<td>0.1-1.0%</td>
<td>H304; H316; H317</td>
<td>31, 4</td>
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<tr>
<td><strong>beta-Caryophyllene</strong></td>
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<tr>
<td>68737-61-1</td>
<td>272-113-5</td>
<td>0.1-1.0%</td>
<td>H227; H303; H313; H315; H317; H401; H411</td>
<td>12, 15, 31</td>
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<tr>
<td><strong>Dimethyltetrahydro Benzaldehyde</strong></td>
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<tr>
<td>68647-72-3</td>
<td>232-433-8</td>
<td>0.1-1.0%</td>
<td>H226; H304; H315; H317; H400; H410</td>
<td>12, 3, 31</td>
<td></td>
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<tr>
<td><strong>Limonene</strong></td>
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<tr>
<td>112-54-9</td>
<td>203-983-6</td>
<td>0.1-1.0%</td>
<td>H315, H317; H319</td>
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<tr>
<td><strong>Lauric aldehyde</strong></td>
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<tr>
<td>110-41-8</td>
<td>203-765-0</td>
<td>0.1-1.0%</td>
<td>H227; H315; H317; H402; H410</td>
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<tr>
<td><strong>2-Methylundecanal</strong></td>
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</tr>
</tbody>
</table>

See Section 16 for full text of GHS classification codes
Total Hydrocarbon Content (% w/w) = 20.39
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 Exposure:** Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

**Skin Exposure:** 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 Immediate Medical Attention and Special Treatment Needed

**Treatment:** Refer to Section 2.2 “Response”

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 spillage 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:** Yellow (G5)
- **Viscosity:** Liquid
- **Freezing Point:** Not determined
- **Boiling Point:** Not determined
- **Melting Point:** Not determined
- **Flashpoint (CCCFP):** 152°F (66.67°C)
- **Auto flammability:** Not determined
- **Explosive Properties:** None expected
- **Oxidizing Properties:** None expected
- **Vapor Pressure (mmHg@20C):** 0.2129
- **%VOC:** 22.5406
- **Specific Gravity @ 25 C:** 1.0030
- **Density @ 25 C:** 1.0000
- **Refractive Index @ 20 C:** 1.5220
- **Soluble in:** Oil

### 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: 2,242.15) May be harmful if swallowed

Acute Toxicity-Dermal (Rabbit) mg/kg (LD50: Undetermined) Not classified - the classification criteria are not met

Acute Toxicity-Inhalation (Rat) mg/L/4hr (LC50: 30.63) 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

Carcinogenicity Not classified - the classification criteria are not met

Reproductive Toxicity Not classified - the classification criteria are not met

Specific Target Organ Toxicity
Single Exposure Not classified - the classification criteria are not met

Specific Target Organ Toxicity Repeated Exposure Not classified - the classification criteria are not met

Aspiration Hazard May be fatal if swallowed and enters airways

SECTION 12: Ecological Information

12.1 Toxicity

Acute Aquatic Toxicity Very toxic to aquatic life

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>UN-Nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. DOT (Non-Bulk)</td>
<td>Not regulated - Not Dangerous Goods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical NOI</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADR/RID (International Road/Rail)</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>UN3082</td>
</tr>
<tr>
<td>IATA (Air Cargo)</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>UN3082</td>
</tr>
<tr>
<td>IMDG (Sea)</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>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:
- 94-59-7  202-345-4  <= 60 ppm  Safrole (NFS)
- 93-15-2  202-223-0  <= 30 ppm  Methyl Eugenol (NFS)
- 123-35-3(NF 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
H312: Harmful in contact with skin
H314: Causes server skin burns and eye damage
H317: May cause an allergic skin reaction
H402: Harmful to aquatic life
H412: Harmful to aquatic life with long lasting effects

H302: Harmful if swallowed
H313: May be harmful in contact with skin
H316: Causes mild skin irritation
H318: Causes serious eye damage
H401: Toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects
16.2 Total Fractional Values

(TFV) Risk
(2.10) Aspiration Hazard, Category 1
(4.73) Skin Corrosion/Irritation, Category 2
(150.00) Sensitization, Skin, Category 1A
(4.71) Eye Damage/Eye Irritation, Category 2A
(1.93) Aquatic Acute Toxicity, Category 1
(10.28) 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.