MATERIAL SAFETY DATA SHEET

SANDALWOOD ESSENTIAL OIL

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: SANDALWOOD ESSENTIAL OIL
Product Use: Personal Care Formulations
Company Name: Natural Sourcing
Company Address: 341 Christian Street, Oxford, CT 06478, USA
Date Issued: 07/20/2016
Emergency Telephone Number: Chemtrec Tel: (800) 262-8200

2. COMPOSITION/INGREDIENT INFORMATION

Ingredients:
Steam distilled essential oil of Santalum Album 100%
Hazardous Components: None
CAS #: 8006-87-9
INCI Name: Santalum album (Sandalwood) Oil

3. HAZARDS IDENTIFICATION

Routes of Entry
Eye Contact: Irritation and redness may occur
Skin Contact: Irritation may occur with prolonged contact
Inhalation: Throat and lung irritation may occur upon breathing vapors
Ingestion: Irritation of the throat, nausea and stomach pain may occur if swallowed.

4. FIRST AID MEASURES

Eyes: Flush with plenty of water or eye wash solution for 15 minutes. Get medical attention if irritation persists.
Skin: Remove contaminated clothing. Wash with soap and flush with plenty of water. Seek medical attention if irritation persists.
Ingestion: Rinse mouth with water. Drink milk or water to dilute. Seek medical attention immediately or call a poison control center. Avoid gross inhalation of fumes. Remove to fresh air and seek medical attention if needed.

Inhalation: Avoid gross inhalation of fumes. Remove to fresh air and seek medical attention if needed.

5. FIRE FIGHTING MEASURES

Flash Point (Method Used): 93.33°C/200°F Closed Cup
Extinguishing Media: Dry Chemical, Carbon Dioxide, Alcohol Resistant Foam
Special Firefighting Procedures: Fire fighters should wear positive pressure self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
Unusual Fire & Explosion Hazards: None
6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

**Personal Protection:**
- Avoid ingestion
- Follow good industrial practice as to housekeeping, personal hygiene and avoidance of prolonged or repeated contact with the skin or eyes.
- Wear eye protection, chemical resistant gloves and aprons.
- Ventilate area well.
- NIOSH approved respiratory device may be used.

**Methods for Cleaning Up:**
- Eliminate all sources of ignition
- Ventilate area
- Prevent liquid from entering sewers
- Small spills can be wiped up with paper rags (place in closed metal waste container)
- Large spills can be absorbed onto non-flammable absorbent.
- Wash area with soap and water.

7. HANDLING AND STORAGE

**Handling**

**Safe Handling:**
- Avoid ingestion
- Follow good industrial practice as to housekeeping, personal hygiene and avoidance of prolonged or repeated contact with the skin or eyes.
- Wear eye protection, chemical resistant gloves and aprons.
- Ventilate area well.
- NIOSH approved respiratory device may be used.

**Storage**

**Requirements for Storage Areas and Containers:**
- Store in an area that is cool, dry, and well-ventilated. Store away from light.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Threshold Limit Value:**
- Not established

**OSHA Permissible Limit:**
- Not established

**Engineering Controls:**
- Eye wash station and safety showers are recommended near the work area.
- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

**Work Practice Controls:**
- (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- (3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

**Respiratory:**
- Avoid casual breathing of vapors. NIOSH approved respiratory device may be used.

**Ventilation:**
- Local, mechanical exhaust is recommended

**Eye:**
- OSHA approved safety glasses

**Skin:**
- Wear chemical resistant gloves and clothing to avoid skin contact
### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid oil, viscous</td>
</tr>
<tr>
<td>Color</td>
<td>Dark reddish brown to amber</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic of sandalwood, woody, balsamic</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg.)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>93.33°C/200°F Tag Closed Cup</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity (@30°C)</td>
<td>0.962-0.976</td>
</tr>
<tr>
<td>Refractive Index @ 30°C</td>
<td>1.499-1.506</td>
</tr>
<tr>
<td>Optical Rotation</td>
<td>-15 ° to -20 °</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>This material is stable under normal conditions</td>
</tr>
<tr>
<td>Incompatibility (Materials to Avoid)</td>
<td>Avoid contact with strong oxidizing agents, strong acids, strong bases, and avoid hot work and sources of ignition on or near empty containers.</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Avoid contact with sparks, flame and heat.</td>
</tr>
<tr>
<td>Hazardous Decomposition or Byproducts</td>
<td>In combustion, emits toxic fumes of carbon monoxide and carbon dioxide.</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Will Not Occur</td>
</tr>
</tbody>
</table>

### 11. TOXICOLOGICAL INFORMATION

**CAUTION:** Liquid may be irritating to eyes and skin.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH TLV</td>
<td>None established</td>
</tr>
<tr>
<td>OSHA PEL</td>
<td>None established</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>NTP Monograph: Not Listed as Carcinogenic</td>
</tr>
<tr>
<td></td>
<td>IARC Monograph: Not Listed as Carcinogenic</td>
</tr>
<tr>
<td></td>
<td>Oral LD50: 5g/kg in rats</td>
</tr>
<tr>
<td>Acute Toxicity Data</td>
<td>Dermal LD50: 5g/kg in rabbits</td>
</tr>
<tr>
<td></td>
<td>Inhalation LC50: None established</td>
</tr>
<tr>
<td></td>
<td>Skin Contact: Liquid may be irritating</td>
</tr>
<tr>
<td>Health Hazards (Acute &amp; Chronic)</td>
<td>Eye Contact: Liquid may be irritating</td>
</tr>
</tbody>
</table>

### 12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobility</td>
<td>Insoluble in water. Readily absorbed into soil.</td>
</tr>
<tr>
<td>Persistence and Degradability</td>
<td>Biodegradable</td>
</tr>
<tr>
<td>Bioaccumulative Potential</td>
<td>None</td>
</tr>
</tbody>
</table>

### 13. DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste Disposal Methods</td>
<td>Dispose of according to local, state and federal regulations.</td>
</tr>
</tbody>
</table>
14. TRANSPORT INFORMATION

ADDR/RID:
UN No:
Hazard ID No:
ADR Class:
Labeling:

IMDG/IMO:
UN No:
Class:
Packaging Group:
Labeling:

IATA/ICAO:
UN No:
Class:
Packaging Group:
Labeling:

15. REGULATORY INFORMATION

Hazard Symbols: Flammable
Risk Phrases:
R10: Flammable
R36/38: Irritating to skin and eyes
R43: May cause sensitization by skin contact
R65: Harmful: May cause lung damage if swallowed
S02: Keep out of the reach of children
S24/25: Avoid contact with skin and eyes
S36: Wear suitable protective clothing
S45: In case of accident or if you feel unwell, seek medical advice immediately.

16. ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.