# Material Safety Data Sheet

**Lavandin (L. Grosso) Oil**

## 1. Product Name and Company Identification

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>Lavandin Grosso Essential Oil</td>
</tr>
<tr>
<td>Product Use:</td>
<td>Personal Care Formulations, Fragrance</td>
</tr>
<tr>
<td>Company Name:</td>
<td>Natural Sourcing</td>
</tr>
<tr>
<td>Company Address:</td>
<td>341 Christian Street, Oxford, CT 06478, USA</td>
</tr>
<tr>
<td>Date Issued:</td>
<td>6/1/2008</td>
</tr>
<tr>
<td>Emergency Telephone Number:</td>
<td>Chemtrec Tel: (800) 262-8200</td>
</tr>
</tbody>
</table>

## 2. Composition/Ingredient Information

| Composition: | Steam distilled essential oil of Lavandin grosso flowers 100% by weight |
| Latin Name: | Lavandula burnati Briquet |
| CAS #: | 8022-15-9 |
| EINECS #: | 93455-97-1 |
| CoE #: | 257n |
| FEMA #: | 2618 |
| Main Constituents: | Linalyl acetate, Linalool, Camphor |
| Hazardous Components: |  
  - Linalool: CAS #: 78-70-6, Xi, R38, < 42%  
  - Camphor: CAS #: 76-22-2, Xn, R20-68/22, <10%  
  - β-phellandrene: CAS #: 555-10-2, Xn, R65, < 9%  
  - Cineol 1,8 (eucalyptol): CAS #: 470-82-6, R10, < 9%  
  - 4-Terpinenol: CAS #: 562-74-3, Xn, R22, R38, < 7%  
  - Borneol: CAS #: 507-70-0, F, R11, < 5%  
  - β-caryophyllene: CAS #: 87-44-5, Xn, R65, < 4%  
  - trans- β-ocimene: CAS #: 13877-91-3, Xn, R65, < 4%  
  - Limonene: CAS #: 5989-27-5, N, Xi, R10, R38, R43, R50/53, < 2% |

**Allergens (according to Cosmetic Directive 2003/15/EC):**  
Linalool (26-42%), Linalool (< 2%), Geraniol (<1%), Coumarin (< 0.2%)  

## 3. Hazards Identification

| Main Hazards: | Xn: Harmful |
| Risk to Human Health & Environment: | R38: Irritating to Skin  
R43: May cause sensitization by skin contact  
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R65: Harmful: may cause lung damage if swallowed |

**Classification System:**  
In accordance with the directives 67/548/EEC, 1999/45/EC and
its annexes as well as the Code of Practice EFFA (1) in its current version.

### 4. FIRST AID MEASURES

**Eyes:** Remove lenses if applicable. Flush with copious amounts of vegetable oil. Get medical attention if irritation persists or if lesion is visible.

**Skin:** Remove contaminated clothing. Thoroughly wash the affected area with soap and water. Flush with large quantities of water. Cover with emollient or pure vegetable oil. Seek medical attention if irritation persists.

**Ingestion:** Administer water or milk to dilute. Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention or contact local poison control center immediately.

**Inhalation:** Remove to fresh air. Seek medical attention if necessary.

*Serious Inhalation:* Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

**Medical Conditions Generally Aggravated by Exposure:** No information

### 5. FIRE FIGHTING MEASURES

**Flash Point (Method Used):** >75°C

**Flammable Limits**
- LEL: Not Established
- UEL: Not Established

**Hazardous Combustion Products:** CO₂, CO, irritating smoke and unidentified organic compounds may be formed during combustion.

**Extinguishing Media:**
- Dry Chemical
- Carbon Dioxide
- Foam

*Note:* Do not use water spray except to cool containers

**Special Firefighting Procedures:**
- Wear positive pressure, self contained breathing apparatus.
- Wear protective clothing to prevent contact with skin and eyes.
- Remove containers from fire area.
- Spray extinguishing media directly into the base of the flames.
- Water is unsuitable for use on burning materials but may be used to cool containers exposed to heat.

**Unusual Fire & Explosion Hazards:** None known

### 6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

**Personal Protection:**
- Chemical splash goggles should be worn.
- If in a confined area, a certified/approved vapor respirator should be used.
- Remove individuals if they do not have respiratory/dust protection.
• Wear protective clothing and chemical resistant gloves.

**Note:** Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Environmental Protection:** Notify authorities if large amounts of product enters sewer.

**Methods for Cleaning Up:**
• Remove any source of flame or sparks.
• Ventilate area
• Prevent liquid from entering the sewers.
• Recover spilled material with pump or absorb onto an inert, absorbent substrate and sweep up.
• Wash area with soap and water.

### 7. HANDLING AND STORAGE

**Handling**

**Safe Handling:**
• Wear safety glasses and chemical resistant gloves.
• Keep away from oxidizing agents, excessive heat, light and sources of ignition.

**Storage**

**Requirements for Storage Areas and Containers:**
• Store in a cool, dry location, in a sealed container in a well ventilated area away from sources of ignition.

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering Controls:**
• Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
• Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection**

**Eye:** Chemical splash goggles or face shield should be worn.

**Skin/Body:** Lab coats, boots and chemical resistant gloves should be worn.

**Respiratory:** Use adequate ventilation or NIOSH-approved respiratory devices if vapor concentration is high due to heat.

**Ventilation:** Handle in well ventilated areas. Ventilation meeting ACGIH Standards should be employed.

**Other:** Evaluate need based on application. Slip proof shoes may be worn where spills may occur.

**Work/Hygiene Practice:** Use good personal hygiene practices. Limit exposure to product whenever possible. Wash contaminated clothing or shoes before each use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Color:** Clear, yellow

**Odor:** Characteristic of lavender, camphor

**Density:** 0.885 to 0.895

**Refractive Index @ 20°C:** 1.458-1.465

**Viscosity:** Not available

**Vapor Pressure @ 25°C:** Not available
Optical Rotation @ 20°C: -9° to -1°
Flash Point: >75°C
Solubility in Water: Insoluble

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use
Conditions to Avoid: Keep away from sources of ignition, flame and heat. Avoid hot work and sources of ignition on or near empty containers.
Incompatibility (Materials to Avoid): Strong oxidizing agents, PVC
Hazardous Decomposition or Byproducts: No decomposition if use is appropriate.
Hazardous Polymerization: Will Not Occur
Shelf Life: 5 Years

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Eye contact, skin contact, ingestion, inhalation
Threshold Limit Value (ACGIH TLV): None established
Threshold Limit Value (OSHA PEL): None established
Carcinogenicity: NTP Monograph: None established
IARC Monograph: None established
Acute Toxicity Data: Oral LD50: Acute: > 5000 mg/kg [Rat]
Dermal LD50: Acute: > 5000 mg/kg [Rabbit]
Inhalation LC50: None established
Health Hazards (Acute and Chronic): Ingestion of large quantities: Hazardous
Skin Contact: Liquid may be irritating
Inhalation: Hazardous
Eye Contact: Liquid may be irritating
Other Effects: None established

12. ECOLOGICAL INFORMATION

Mobility: Very volatile and low viscosity matter with slow movement in the soil.
Aquatic Toxicity: Due to the presence of limonene: R52/53: Harmful to aquatic organisms, may cause long term effects in the aquatic environment.
Bioaccumulation Potential: Not known
Precautions: Avoid direct discharges to the natural environment (waters surface, sewage or underground waters).

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Do not put into sewer lines. Dispose of according to local, state and federal regulations.

14. TRANSPORT INFORMATION

Customs Rate Code: 3301 29 41 00
Transport Classification: (according to international regulations)
Land: Not regulated
Sea: Not regulated
Air: Not regulated
DOT Classification: Not regulated
15. REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Lavandin oil
Other Regulations: Not available
WHMIS (Canada): Not controlled under WHMIS (Canada)
DSCL (EEC): Classification: Xn - Harmful

Risk Phrases:
R38 – Irritating to eyes and skin.
R43 – May cause sensitization by skin contact
R52/53 – Harmful to aquatic organisms, may cause long term harmful effects to the aquatic environment.
R65 – May cause lung damage if swallowed

Safety Phrases:
S24 – Avoid contact with skin
S37 – Wear suitable gloves
S62 – If swallowed, do not induce vomiting: seek medical attention immediately.

HMIS (U.S.A.):
Health: 2
Fire: 1
Reactivity: 0

National Fire Protection Association (U.S.A.):
Health: 2
Flammability: 1
Reactivity: 0

Protective Equipment: Gloves, Lab Coat, Vapor Respirator, Splash Goggles

16. ADDITIONAL INFORMATION

Important R Phrases:
R10 Flammable
R11 Highly flammable
R20 Harmful by inhalation
R22 Harmful if swallowed
R38 Irritating to skin
R43 May cause sensitization by skin contact
R65 Harmful: may cause lung damage if swallowed
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R68/22 Harmful: possible risk of irreversible effects if swallowed

This information is provided for documentation purposes only.

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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.