MATERIAL SAFETY DATA SHEET
Lavender Essential Oil

Section 1: Product and Company Identification
Product Name: Lavender oil
Botanical Name: Lavandula angustifolia
CAS#: 8000-28-0

Contact information:

<table>
<thead>
<tr>
<th>Plant's Power Inc</th>
<th>24 HOUR EMERGENCY TELEPHONE NUMBER: (647)-427-4480</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-2700 St.Clair Ave west</td>
<td></td>
</tr>
<tr>
<td>Toronto, Ontario</td>
<td></td>
</tr>
<tr>
<td>M6N 1M2</td>
<td></td>
</tr>
<tr>
<td>Contact: 1-416-766-1254</td>
<td></td>
</tr>
<tr>
<td><a href="mailto:contactus@plantpower.ca">contactus@plantpower.ca</a></td>
<td></td>
</tr>
</tbody>
</table>

Section 2: Composition and Information on Ingredients
Composition:

Name CAS # % by Weight
Lavender oil 8000-28-0 100

Toxicological Data on Ingredients: Lavender oil: ORAL (LD50): Acute: 4250 mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linalyl acetate</td>
<td>115-95-7</td>
<td>30 – 40%</td>
<td>Eye Irrit. 2A (H319) Flam. Liq. 4 (H227) Aquatic Acute 3 (H402) Skin Irrit. 2 (H315)</td>
</tr>
<tr>
<td>Linalool</td>
<td>78-70-6</td>
<td>30 – 40%</td>
<td>Acute Tox. Oral 5 (H303) Eye Irrit. 2A (H319) Flam. Liq. 4 (H227) Aquatic Acute 3 (H402) Skin Sens. 1B (H317)</td>
</tr>
</tbody>
</table>
### Section 3: Hazards Identification

**OSHA Hazard Classification**

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Skin Sensitization</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (Single Exposure)</td>
<td>Category 2</td>
</tr>
<tr>
<td>Aspiration Toxicity</td>
<td>Category 1</td>
</tr>
<tr>
<td>Flammable Liquids</td>
<td>Category 4</td>
</tr>
</tbody>
</table>

**Label Elements**

Signal Word: **DANGER**  

**Hazard Statements**

- Causes skin irritation  
- Causes serious eye irritation  
- May cause an allergic skin reaction  
- May cause damage to organs  
- May be fatal if swallowed and enters airways  
- Combustible liquid
Precautionary Statement
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Contaminated work clothing should not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray
Do not eat, drink or smoke when using this product
Keep away from heat/sparks/open flames/hot surfaces – no smoking

Precautionary Statements – Response
Specific treatment (see supplemental first aid instructions on this label)
IF exposed or if you feel unwell: Call a poison center or doctor/physician
IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing if eye irritation persists: Get medical advice/attention.
IF ON SKIN: wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: get medical advice/attention
IF SWALLOWED: immediately call a poison center or doctor/physician
Do not induce vomiting
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements – Disposal
Dispose of contents/container to an approved waste disposal plant

Other Information
May be harmful if swallowed
Toxic to aquatic life with long lasting effects
Toxic to aquatic life

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:
- CARCINOGENIC EFFECTS: Not available.
- MUTAGENIC EFFECTS: Not available.
- TERATOGENIC EFFECTS: Not available.
- DEVELOPMENTAL TOXICITY: Not available.
Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give
anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Section 5: Fire and Explosion Data

Flammability of the Product: Combustible.
Auto-Ignition Temperature: Not available.
Flash Points: CLOSED CUP: 71.111°C (160°F).
Flammable Limits: Not available.
Products of Combustion: Not available.

Suitable Extinguishing Media:
- Dry chemical
- Carbon dioxide
- Water Spray
- Alcohol-resistant foam

Unsuitable Extinguishing Media:
- Decomposition by contact with water may generate vapours which can be ignited by heat or open flame

Fire Hazards in Presence of Various Substances:
- Slightly flammable to flammable in presence of open flames and sparks, of heat.

Explosion Hazards in Presence of Various Substances:
- Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
- SMALL FIRE: Use DRY chemical powder.
- LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards:
- COMBUSTIBLE. When heated to decomposition it emits acrid smoke and irritating fumes.

Special Remarks on Explosion Hazards:
- Not available

Section 6: Accidental Release Measures

Personal Precautions:
- Use personal protective equipment. Remove all source of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharge.

Environmental Precautions:
- Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Methods and Material for Containment and Cleaning Up:
- Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.
- Large Spill: Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:
- Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice.
immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8: Exposure Controls/Personal Protection

Control Parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL (TWA)</th>
<th>ACGIH TLV (TWA)</th>
<th>ACGIH TLV (STEL)</th>
<th>California PEL (TWA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL-Camphor 21368-68-3</td>
<td>2 MGM3</td>
<td>2PPM</td>
<td>3PPM</td>
<td>2 MGM3</td>
</tr>
<tr>
<td>α-Pinene 80-56-6</td>
<td>-</td>
<td>20PPM</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>B-Pinene 127-91-3</td>
<td>-</td>
<td>20PPM</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Carene-3 13466-78-9</td>
<td>-</td>
<td>20PPM</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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: Safety glasses. Lab coat.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Hygiene Consideration: When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.
Odor: Odor of lavender flowers
Color: Colorless to light yellow.
Boiling Point (°C): > 35
Flash Point (°C): 74°C / 166°F
Specific Gravity (20/20 °C): 0.8927 – 0.927 (Water = 1)
Solubility: Insoluble in cold water, hot water.

Section 10: Stability and Reactivity Data

Stability: The product is stable under normal conditions.
Reactivity: No dangerous reaction known under conditions of normal use. Keep away from oxidizing agents and strong acidic and alkaline materials.
Conditions to Avoid: Heating in air.
Incompatibility: Strong oxidizing agents.
Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry:
Absorbed through skin. Eye contact.

Toxicity to Animals:
Acute oral toxicity (LD50): 4250 mg/kg [Rat].
Acute dermal toxicity (LD50): 5000 mg/kg [Rabbit].

Other Toxic Effects on Humans:
Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:
Skin: May cause skin irritation. Irritation is expected to be mild.
Eyes: May cause eye irritation.
Inhalation: May cause respiratory tract irritation.
Ingestion: Low hazard for usual industrial handling.

Chronic Potential Health Effects:
Skin: Prolonged or repeated skin contact may cause allergic dermatitis.

Section 12: Ecological Information

Ecotoxicity: Not available.
BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Section 13: Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Contaminated Packaging: Empty containers should be taken for local recycling, recovery or waste disposal.

Section 14: Transport Information

DOT: Not regulated
IMGD/IMO:
UN/ID No.: 3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s (3-cyclohexene-1-methanol, a,a,4-trimethyl AND cyclohexene, 1-methyl-4-(1-methylethenyl)-(r))
Hazard Class: 9
Packing Group: III
EmS No.: F-A, S-F

IATA/ICAO: UN No.: 3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s (3-cyclohexene-1-methanol, a,a,4-trimethyl AND cyclohexene, 1-methyl-4-(1-methylethenyl)-,(r))
Hazard Class: 9
Packing Group: III

Section 15: Other Regulatory Information

Federal and State Regulations:
- TSCA 8(b) inventory: Lavender oil

Other Regulations:

Other Classifications:
- WHMIS (Canada):
  CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

DSCL (EEC):
- This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.):
- Health Hazard: 1
- Fire Hazard: 2
- Reactivity: 0
- Personal Protection: a

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

Specific hazard: Not applicable.
Protective Equipment: Lab coat.
- Wear appropriate respirator when ventilation is inadequate.
- Safety glasses.

Section 16: Other Information

Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Plant's Power be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Plant's Power has been advised of the possibility of such damages.