



Plant's Power Inc  
 3-2700 St.Clair Ave west  
 Toronto, Ontario, M6N 1M2  
 Contact: 1-416-766-1254

## 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:

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

Component	CAS-No.	Weight %	GHS Classification
Linalyl acetate	115-95-7	30 – 40%	Eye Irrit. 2A (H319) Flam. Liq. 4 (H227) Aquatic Acute 3 (H402) Skin Irrit. 2 (H315)
Linalool	78-70-6	30 – 40%	Acute Tox. Oral 5 (H303) Eye Irrit. 2A (H319) Flam. Liq. 4 (H227) Aquatic Acute 3 (H402) Skin Sens. 1B (H317)

			Skin Irrit. 2 (H315)
DI-Camphor	21368-68-3	5 – 10%	Acute Tox. Oral 4 (H302) Acute Tox. Inhalation – dust and mist 4 (H332) Flam. Sol. 2 (H228) Aquatic Acute 3. (H402) STOT SE Oral 2 (H371)
Terpinen-4-ol	562-74-3	1.0 – 5.0%	Skin Irrit. 2 (H315) Aquatic Acute 3 (H402) Eye Irrit. 2A (H319) Flam. Liq. 4 (H227) Acute Tox. Dermal 5 (H313) Acute Tox. Oral 4 (H302)
$\alpha$ -Pinene	80-56-8	0.1 – 1.0 %	Acute Tox. Oral 5 (H303) Skin Sens. 1B (H317) Skin Irrit. 2 (H315) Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
$\beta$ -Pinene	127-91-3	0.1 – 1.0%	Skin Sens, 1B (H317) Skin Irrit. 2 (H315) Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

### Section 3: Hazards Identification

#### OSHA Hazard Classification

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Skin Sensitization	Category 1B
Specific Target Organ Toxicity (Single Exposure)	Category 2
Aspiration Toxicity	Category 1
Flammable Liquids	Category 4

#### 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 CO<sub>2</sub>, 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

<b>Flammability of the Product:</b>	Combustible.
<b>Auto-Ignition Temperature:</b>	Not available.
<b>Flash Points:</b>	CLOSED CUP: 71.111°C (160°F).
<b>Flammable Limits:</b>	Not available.
<b>Products of Combustion:</b>	Not available.
<b>Suitable Extinguishing Media:</b>	Dry chemical Carbon dioxide Water Spray Alcohol-resistant foam
<b>Unsuitable Extinguishing Media:</b>	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

Component	OSHA PEL (TWA)	ACGIH TLV (TWA)	ACGIH TLV (STEL)	California PEL (TWA)
DI-Camphor 21368-68-3	2 MGM3	2PPM	3PPM	2 MGM3
$\alpha$ -Pinene 80-56-6	-	20PPM	-	-
B-Pinene 127-91-3	-	20PPM	-	-
Carene-3 13466-78-9	-	20PPM	-	-

**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

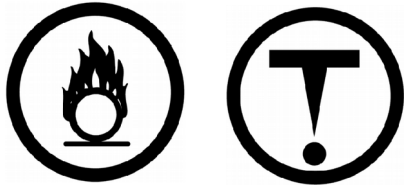
**Other Regulations:**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**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:**

**Protective Equipment:**

Not applicable.

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.