

Review date: October 23rd, 2017



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

Material Safety Data Sheet Pine Needle Oil

Section 1: Product and Company Identification

Product Name: Pine Needle Oil

Botanical Name: *Pinus sylvestris L.*

INCI Name: Pinus Sylvestris Leaf

CAS#: 8002-09-3

Synonyms: Oils, pine; Terpineols; Yamor

Contact information:

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

Section 2: Composition and Information on Ingredients

Composition:

Name CAS # % by Weight

Pine Needle oil 8002-09-3 100

Toxicological Data on Ingredients: Pine oil: ORAL (LD50): Acute: 3200 mg/kg [Rat].
DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].

Section 3: Hazards Identification

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

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.

Inhalation: Vapors may cause dizziness or suffocation. May cause irritation or burns.
Skin: May cause mild skin irritation. Symptoms may include redness and burning of skin
Eyes: Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.
Ingestions: Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.
Hazards: Forms heavy black smoke and soot.
UN DOT: 1272

Section 4: First Aid Measures

Inhalation: Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.
Ingestion: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.
Skin Contact: Remove and isolate contaminated clothing and shoes. Wash skin with soap and water. Flush with running water for at least 20 minutes
Eye Contact: Remove any contact lenses. Flush with running water for at least 20 minutes.

Section 5: Fire and Explosion Data

Flash Point:	Closed Cup: 77.78°C (172°F)
Flammability of the Product:	Combustible
Extinguishing Media:	Dry Chemical Carbon Dioxide Foam
Special Firefighting Procedures:	Do not extinguish fire unless flow can be stopped. Use water in flooding quantities as fog. Solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water. Apply water from as far a distance as possible. Use foam, dry chemical, or carbon dioxide.
Fire Potential:	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
Products of Combustion:	Not available.
Fire Hazards in Presence of Various Substances:	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:	Not available.
Special Remarks on Explosion Hazards:	Not available.

Section 6: Accidental Release Measures

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.

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/ vapour/spray. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage: Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. Keep container dry. Keep in a cool place.

Section 8: Exposure Controls/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
Respirators: Wear appropriate protective gloves, clothing and goggles. Wear positive pressure self-contained breathing apparatus (SCBA).

Exposure Effects: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness).

Large Spill: Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Poison Class: 4

Section 9: Physical and Chemical Properties

Review date: October 23rd, 2017

Appearance:	A clear colourless to light amber coloured liquid. Primarily comprised of terpene alcohols.
Odour:	Characteristic.
Specific Gravity @ 20°C:	0.9 (Water = 1)
Vapour Density:	5.3 (AIR=1)
Boiling Point:	210°C (410°F)
Melting Point:	Not available
Solubility in Water:	Insoluble in cold water

Section 10: Stability and Reactivity Data

Stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
Incompatibilities:	Flammable and/or toxic gases are generated by combination with with alkali metals, nitrides, and strong reducing agents Reacts with oxoacids and carboxylic acids to form esters plus water Incompatible with oxidizing agents.
Combustion Products: Hazardous Decomposition Products:	Fire may produce irritating, corrosive and/or toxic gases Carbon dioxides and carbon monoxides, various hydrocarbons.

Section 11: Toxicological Information

Routes of Entry:	Eye contact. Inhalation. Ingestion.
Toxicity to Animals:	Acute oral toxicity (LD50): 3200 mg/kg [Rat]. Acute dermal toxicity (LD50): 5000 mg/kg [Rabbit].
Chronic Effects on Humans:	Not available.
Other Toxic Effects on Humans:	Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).
Special Remarks on Toxicity to Animals:	Not available.
Special Remarks on Chronic Effects on Humans:	Not available.
Special Remarks on other Toxic Effects on Humans:	Not available.

Section 12: Ecological Information

Review date: October 23rd, 2017

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.
Toxicity of the Products of Biodegradation: The products of degradation are more toxic.
Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal: Do not put into sewer lines. Dispose of in accordance with state, local and federal regulations.

Section 14: Transport Information

UN Number: 1272
Hazard Class: 3
Packing Group: III

DOT Classification: Not a DOT controlled material (United States).
Identification: Not available. : UN1272 PG: III
Special Provisions for Transport: No DOT, ref 49CFR, 173.150

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Pine 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): R36/38- Irritating to eyes and skin.
HMIS (U.S.A.):
Health Hazard: 0
Fire Hazard: 2
Reactivity: 0
Personal Protection: h

Review date: October 23rd, 2017

National Fire Protection Association (U.S.A.):

Health:	0
Flammability:	2
Reactivity:	0

Specific hazard:

Protective Equipment:

Gloves.

Lab coat.

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Splash goggles.

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