



Plant's Power Inc
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Toronto, Ontario, M6N 1M2
Contact: 1-416-766-1254

Material Safety Data Sheet Sandalwood Oil (*Santalum album*)

Section 1: Product and Company Identification

Product Name: Sandalwood oil

Botanical Name: *Santalum album*

INCI Name: Santalum album wood oil

CAS#: 84787-70-2

EC #: 284-111-1

Country of Origin: Indonesia

Packaging Group: III Class: 3

Contact information:

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Section 2: Composition and Information on Ingredients

Composition: Sandalwood essential oil is obtained by steam distillation of wood of *Santalum album*

Name: Sandalwood oil

UN No.: 1169 Liquid aromatic extract.

% by Weight: 100%

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

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

Potential Chronic Health Effects

Carcinogenic Effects: Not available.

Mutagenic Effects: Not available.

Teratogenic Effects: Not available.

Developmental Toxicity: Not available.

Note: Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact: 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.

Serious Skin Contact: Not available.

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

Serious Inhalation: Not available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion

Data Flammability of the Product: Flammable liquid. Will ignite if moderately heated.

Auto-Ignition Temperature: Not available.

Flash Points: Closed cup 136 °C

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

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, CO₂, dry chemical. DO NOT use direct water jet on burning material.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Spillage: Absorb with an inert material and put the spilled material in an approved waste disposal container.

Section 7: Handling and Storage

Precautions: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe gas/fumes/ vapor/spray. Keep away from incompatibles such as oxidizing agents.

Storage: Light Sensitive. Store in light-sensitive containers. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 21 °C (70 °F).

Environment: Keep away from drains, surface and ground water.

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: 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.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance:	Liquid
Odor, taste:	Characteristic sweet, soft, woody
Molecular Weight:	Not available.
Color:	Pale yellow to bright golden
pH (1% soln/water):	Not applicable.
Flash Point:	136°C
Melting Point:	Not available.
Critical Temperature:	Not available.
Specific Gravity:	0.935 – 0.980 at 20°C
Optical rotation:	-16° - + 4°
Refractive index:	1.500 – 1.517
Composition:	β -Bisabolol, α -cis-santalol, epi-bisabolol, cis-bergamotol, cis-lanceol, epi-cis-santalol, β -cis-santalol, E,E-farnesol, cis-nuciferol, trans- β -santalol, trans-nuciferol
Volatility:	Essential oils are naturally high in volatile organic compounds (VOCs).
Odor Threshold:	Not available.
Water/Oil Dist. Coeff.:	Soluble in alcohol and oils. Insoluble in water.
Ionicity (in Water):	Not available.
Dispersion Properties:	Not available.
Solubility:	Soluble in alcohol and carrier oils . Insoluble in cold water, hot water.

Section 10: Stability and Reactivity

Data Stability:	The product is stable.
Instability Temperature:	Not available.
Conditions of Instability:	Excess heat, light, air, incompatible materials
Incompatibility with various substances:	Reactive with oxidizing agents.

Corrosivity:	Not available.
Special Remarks on Reactivity:	Easily oxidized by air. Light Sensitive.
Special Remarks on Corrosivity:	Not available.
Polymerization:	Will not occur.
Dangerous products of Decomposition:	When heated to decomposition, the smoke from burning essential oils may contain potential carcinogens, such as polycyclic aromatic hydrocarbons (PAHs).

Section 11: Toxicological Information

Routes of Entry:	Absorbed through skin. Eye contact.
Toxicity to Animals:	Oral LD50: <5g/kg (rabbit). Dermal LD50: <5g/kg(rabbit)
Chronic Effects on Humans:	Not available.
Other Toxic Effects on Humans:	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
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:	
Acute Potential Health Effects:	
Skin:	May cause skin irritation.
Eyes:	May cause eye irritation.
Ingestion:	Ingestion of large amounts may cause digestive tract irritation.
Inhalation:	Breathing high concentrations of vapor may cause an esthetic effects. Vapor may be irritating to respiratory tract.
Chronic Potential Health Effects:	
Skin:	Repeated contact my cause allergic dermatitis. This product is a natural product for which no health hazard data exist.

Section 12: Ecological Information

Eco-toxicity:	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:	Not available.
Special Remarks on the Products of Biodegradation:	Not available.

Section 13: Disposal Considerations

Waste Disposal:	Waste must be disposed of in accordance with federal, provincial or state and local environmental control regulations.
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Section 14: Transport Information

DOT Classification:	Not a DOT controlled material (United States).
Identification:	Not applicable.
Special Provisions for Transport:	Not applicable.

Section 15: Other Regulatory Information

WHMIS (Canada):	Not controlled under WHMIS (Canada).
DSCL (EEC):	This product is not classified according to the EU regulations.
Federal and State Regulations (U.S.A.): TSCA 8(b) inventory:	
Other Regulations:	Not available.
Other Classifications:	
HMIS (U.S.A.):	
Health Hazard:	1
Fire Hazard:	1
Reactivity:	0

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

Health:	1
Flammability:	1
Reactivity:	0
Protective Equipment:	Lab coat, 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.
