

Material Safety Data Sheet

Turpentine Oil

Section 1 - Chemical Product and Company Identification

MSDS Name : Tung Oil
Synonyms : Pinene Isomers Mixture
Chemical Formula :
Company Identification : Tradeasia International Pte Limited
133 Cecil Street # 12-03 Keck Seng Tower, Singapore
Phone : +65-6227 6365
Fax : +65-6225 6286
Email: contact@chemtradeasia.com

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
-	NON-HAZARDOUS INGREDIENTS	100.0 %

Section 3 - Hazards Identification

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

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS : A4 (Not classifiable for human or animal.) by ACGIH.

MUTAGENIC EFFECTS : Not available.

TERATOGENIC EFFECTS : Not available.

DEVELOPMENTAL TOXICITY : Not available.

The substance may be toxic to kidneys, lungs, bladder, gastrointestinal tract, upper respiratory tract, skin, eyes, urinary system, central nervous system (CNS), ears, and nose/sinuses.

Repeated or prolonged exposure to the substance can produce target organs damage.

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.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:

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

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. 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. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.

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.

Auto-Ignition Temperature: 253°C (487.4°F)

Flash Points: CLOSED CUP: 35°C (95°F). (TAG)

Flammable Limits: LOWER: 0.8%

Products of Combustion: These products are carbon oxides (CO, CO₂).

Fire Hazards in Presence of Various Substances:

Flammable in presence of oxidizing materials.

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.

Slightly explosive in presence of oxidizing materials.

Fire Fighting Media and Instructions:

Flammable liquid, insoluble in water.

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent Pressure build-up, auto ignition or explosion.

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:

Toxic flammable liquid, insoluble or very slightly soluble in water. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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. 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. Keep away from incompatibles such as oxidizing agents.

Storage:

Store in a segregated and approved area. 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

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:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a 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.

Exposure Limits:

TWA: 100 (ppm) from OSHA (PEL) [United States]

TWA: 100 from ACGIH (TLV) [United States] [1999]

TWA: 560 from ACGIH (TLV) [United States]

TWA: 100 (ppm) [Australia]

TWA: 150 (ppm) [United Kingdom (UK)]

Consult local authorities for acceptable exposure limits.

Section 9 - Physical and Chemical Properties

Physical State and Appearance : Liquid

Odor : Characteristic

Taste	: Not available
Molecular Weight	: 136 g/mole
Color	: Colorless
Boiling Point	: 165°C (329°F)
Melting Point	: -55°C (-67°F)
Specific Gravity	: 0.861 (Water = 1)
Vapor Pressure	: 76.9kPa (@ 20°C)
Vapor Density	: 4.69 (Air = 1)
Volatility	: Not available
Odor Threshold	: 100 ppm

Dispersion Properties:

Very slightly dispersed in methanol, diethyl ether, n-octanol. Is not dispersed in cold water, hot water.

Solubility:

Very slightly soluble in methanol, diethyl ether, n-octanol. Insoluble in cold water, hot water.

Section 10 - Stability and Reactivity

Stability	: Stable
Instability Temperature	: Not available
Conditions of Instability	: Not available
Incompatibility with var. substances	: Reactive with oxidizing agents
Corrosivity	: Non-corrosive in presence of glass
Special remarks on reactivity	: Do not combine with Stannic Chloride, Chromyl Chloride, Acetone, Chlorine
Polymerization	: Will not occur

Section 11 - Toxicological Information

Routes of Entry	: Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	: WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 5760 mg/kg [Rat]. Acute toxicity of the vapor (LC50): 29000 1 hours

[Mouse].

Chronic Effect On Humans	: CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. May cause damage to the following organs: kidneys, lungs, bladder, gastrointestinal tract, upper respiratory tract, skin, eyes, Urinary System, central nervous system (CNS), ears, nose/sinuses.
Other Toxic Effects On Humans	: Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), 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

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 Products of Biodegradation	: The products of degradation are more toxic.
Special remarks on products of biodegradation	: Not available

Section 13 - Disposal Considerations

Bury in a landfill site approved for the disposal of chemical and hazardous wastes.
Observe all central, state and local environmental regulations.

Section 14 - Transportation Information

D.O.T. Classification	: CLASS 3: Flammable liquid.
Identification	: Turpentine UNNA: UN1299 PG: III
Special Provisions for Transport	: Marine Pollutant

Section 15 - Regulatory Information

Florida: Turpentine

Minnesota: Turpentine

Massachusetts RTK: Turpentine

New Jersey: Turpentine

TSCA 8(b) inventory: Turpentine

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

Other Classifications:

WHMIS (Canada):

CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):

R10- Flammable.

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

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

Health: 1

Flammability: 3

Reactivity: 0

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

Notice: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

