

Material Safety Data Sheet (MSDS)

Section 1: Chemical Product and Company Identification	
Product Name	Pine oil
CAS Number	8002-09-3
Chemical Formula	Not available.
Company Name	CAMACHEM (Part of CAMAL Group) 3F Jinlong East Beijing Station Road Chaoyang District, Beijing, China
Contact	sales@camachem.com
Company Website	www.camachem.com
Section 2: Composition and Information on Ingredients	
Name	Pine oil
CAS #	8002-09-3
% by Weight	100
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:	Not available.
Section 4: First Aid Measures	
Eye Contact:	Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.
Skin Contact:	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation:	Allow the victim to rest in a well ventilated area. Seek immediate 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. Seek medical attention.
Ingestion:	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Serious Ingestion:	Not available.
Section 5: Fire and Explosion Data	
Flammability of the Product:	Combustible.
Auto-Ignition Temperature:	Not available.
Flash Points:	CLOSED CUP: 77.78°C (172°F).
Flammable Limits:	Not available.
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:	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:	Not available.
Section 9: Physical and Chemical Properties	
Physical state and appearance:	Liquid.
Odor:	Not available.
Taste:	Not available.
Molecular Weight:	Not available.
Color:	Not available.
pH (1% soln/water):	Not applicable.
Boiling Point:	210°C (410°F)
Melting Point:	Not available.
Critical Temperature:	Not available.
Specific Gravity:	0.9 (Water = 1)
Vapor Pressure:	Not available.
Vapor Density:	5.3 (Air = 1)
Volatility:	Not available.
Odor Threshold:	Not available.
Water/Oil Dist. Coeff.:	Not available.

Ionicity (in Water):	Not available.
Dispersion Properties:	Not available.
Solubility:	Insoluble in cold water.
Section 10: Stability and Reactivity Data	
Stability:	The product is stable.
Instability Temperature:	Not available.
Conditions of Instability:	Not available.
Incompatibility with various substances:	Not available.
Corrosivity:	Non-corrosive in presence of glass.
Special Remarks on Reactivity:	Not available.
Special Remarks on Corrosivity:	Not available.
Polymerization:	No.
Section 11: Toxicological Information	
Routes of Entry:	Eye contact. Inhalation. Ingestion.
Toxicity to Animals:	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	
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:	Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification:	Not a DOT controlled material (United States).
Identification:	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:	Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
Other Classifications:	Not available.
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
National Fire Protection Association (U.S.A.):	Health Hazard: 0 Fire Hazard: 2 Reactivity: 0 Personal Protection:
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

References:	None.
Other Special Considerations:	None.
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