



Specialized in chemicals

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Material Safety Data Sheet

Pine oil

Section 1: Chemical Product and Company Identification

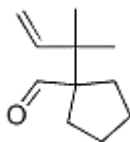
Product Name: Pine oil, Terpineoil

CAS#: 8002-09-3;2228-95-7

TSCA: TSCA 8(b) inventory: Pine oil

CI#: Not available.

Synonym:



Chemical Formula:

Contact Information for Emergency: (0086) 551 65418678

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Pine oil	8002-09-3	100

Section 3: Hazards Identification

Flammable, irritating to eyes, skin, digestive tract and respiratory system. Potential Health Effects Eye: Causes eye irritation. Skin: May cause an allergic skin reaction. Ingestion: Causes digestive tract irritation. Inhalation: Causes respiratory tract irritation.

Section 4: First Aid Measures

Eyes: Flush eyes with a large quantity of water for at least 15 minutes, occasionally lifting the upper and lower eyelids, consult surgeon if irritation develops. Skin: Remove contaminated clothing and shoes, wash affected area with plenty of soap and water for at least 15 minutes, consult surgeon if irritation develops. Ingestion: Drink plenty of milk or water immediately, do not induce vomiting, get medical aid. Inhalation: Remove victim from exposure to fresh air immediately, if not breathing, give artificial respiration; if breathing is difficult, give medical oxygen. Get medical aid.

Section 5: Fire and Explosion Data

Special Fire-Fighting Procedures: As material emits toxic fumes under fire conditions, wearing a self-contained breathing apparatus in pressure-demand and protecting clothing to prevent contacts from eyes and skin is strongly recommended. Extinguishing Media: Carbon dioxide, dry chemical powder or appropriate foam. Do not use water, water is unsuitable for use on burning material, but may be used to cool containers exposed to heat.

Section 6: Accidental Release Measures

General Information: Use proper personal protective apparatus as indicated in Section 8. Spills/Leaks: Cover with an inert material (e.g. vermiculite, sand, earth or dirt), then place in suitable and tightly closed containers using non-sparking tools, transport outdoors. Avoid open flames or sources of ignition (e.g. pilot lights on gas hot water heater). Dispose of in accordance with current laws and regulations.

Section 7: Handling and Storage

Handling: Measures indicated in Section 8 should be taken to prevent contact from skin and eyes. Vapors may form explosive mixtures with air, provide suitable air extraction ventilation in the work areas. Avoid contact with heat, sparks and flame, smoking should not be permitted in work areas. Storage: Keep away from heat, sparks and flames. Store in a tightly closed and suitable container, containers should be stored in a cool and dry place.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Use adequate ventilation to keep the vapor concentration in work areas out from explosion limit. Protective Equipment: Eyes: Wear chemical safety goggles if splashing is possible, wash contaminated goggles before reuse. Skin: Wear Compatible chemical-resistant gloves and appropriate protective clothing, wash contaminated gloves and clothing before reuse. Inhalation: Do not breath vapors. In confined or poorly ventilated areas, the use of an appropriate respiratory protection may be required.

Section 9: Physical and Chemical Properties

Appearance: Colorless to light yellow clear liquid. Odor: Pine Specific Gravity (D420): 0.875 - 0.940 Flash Point: 55-84°C Boiling Point: 155-225°C @ 760 mmHg Soluble in: Paraffin oil, alcohol, kerosene. Solubility In Water: Negligible

Section 10: Stability and Reactivity Data

Chemical Stability: Stable under ordinary conditions of use and storage.

Conditions to Avoid: Heat, sparks, open flames and other sources of ignition. Incompatible Materials: Strong acids, strong oxidizing agents. Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, irritating and toxic fumes and gases. Hazardous Polymerization: Not available.

Section 11: Toxicological Information

Acute Toxicity Data: LD 50 ORL-RAT 3200-3600 mg/kg LD 50 SKN-RBT > 5000 mg/kg Carcinogenicity : Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

Section 12: Ecological Information

General Information: Prevent contamination of soil, ground and surface waters. Do not discharge product unmonitored into the environment.

Section 13: Disposal Considerations

Dispose of in accordance with all national and local environmental regulations.

Section 14: Transport Information

Land Transport (RID/ADR) Shipping Name : Pine Oil Hazard Class : 3 UN Number : 1272 Packing Group : III Marine Transport (IMDG) Shipping Name : Pine Oil Hazard Class : 3 UN Number : 1272 Packing Group : III Air Transport (IATA) Shipping Name : Pine Oil Hazard Class : 3 UN Number : 1272 Packing Group : III

Section 15: Other Regulatory Information

European information: Hazard Symbols: Xi- Irritant Risk Phrases: R 10 - Flammable R 36/37/38 - Irritating to eyes, respiratory system and skin. Safety Phrases:26-36/37-60-61 26-36/37-60-61
S 16 – keep away from sources of ignition. No smoking. S 36 - Wear suitable protective clothing. S 37 - Wear suitable protective gloves. Hazardous materials identification system: Fire: 2 Health: 1 Reactivity: 1 Personal Protection: B (Degree of Hazard: 4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant)

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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