

(Degree of Hazard: 4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant)

Shipping Classifications:Hazardous Substance/RQ: Ignitable waste/100 lb. (45.4 Kg). Flammable Liquid, Turpentine, 3, UN1299
Int'l./Air Freight: UN 1299 - Terpene Hydrocarbons, Class 3, PG III**E. HEALTH HAZARD DATA****Carcinogenicity:** None
Signs and Symptoms of Acute and Chronic Exposure:**NTP:** N/A**OSHA:** Flammable Liquid**IARC:** N/A

Repeated or prolonged skin contact may produce primary skin irritation, contact dermatitis, or chemical burns. Eye contact with liquid or vapor is irritating and damaging. It can cause conjunctivitis or corneal burns. Vapors can irritate the eyes at 175 ppm. Overexposure to vapor may cause headaches, dizziness, vertigo, chest pain, bronchitis, pulmonary edema, cyanosis, narcosis, accelerated pulse. Acute oral poisoning (mean; lethal dose: Adult - 4 to 6 ounces) and repeated dermal or chronic inhalation overexposure may produce kidney or bladder damage, also may cause a predisposition to pneumonia and chronic nephritis. Effects of repeated inhalation on vapors below TLV is presumed safe.

Primary Routes of Entry:

Inhalation - Absorption/dermal - Ingestion - Eyes

Medical Conditions Aggravated: Eye, skin and upper respiratory inflammation.**TOXICOLOGY:****A & B-Pinene:**

Acute Oral (rat) LD50 = 3700 mg/kg to > 5000 mg/kg

Alpha Pinene:

Acute Dermal (rabbit) LD50 = > 5000 mg/kg

Turpentine:

Oral (human) LDLo = 500 mg/kg. Inhalational (human) LCLo = 175 ppm (irritant effects). Possibility of Teratogenic Effects exists for pregnant women (AIHA Journal, 1976, 423-26)

EMERGENCY AND FIRST AID PROCEDURES:**Skin Contact:**

Wash affected area with copious amounts of soap and water. Remove contaminated clothing and shoes, and launder before re-use. If irritation persists, seek medical assistance.

Eye Contact:

Remove any contact lenses at once. IMMEDIATELY flush eyes well with large quantities of water for at least 15 minutes. See a physician immediately.

Accidental Ingestion:

GET MEDICAL HELP IMMEDIATELY. Stomach pumping and lavage may be required. Give edible oil or white mineral oil to drink. DO NOT induce vomiting - aspiration a hazard if vomiting occurs.

Inhalation:

If symptoms of overexposure are experienced, evacuate to fresh air. If respiration stops, give mouth to mouth resuscitation. If symptoms persist, seek medical attention.

F. REACTIVITY DATA**Stability:**

Stable under ordinary conditions of use and storage

Hazardous Decomposition Products:

Burning produces Carbon Monoxide and/or Carbon Dioxide.

Hazardous Polymerization:

May occur from contamination with strong acids.

Conditions to Avoid:

Reasonably stable when stored in well-ventilated, cool place in suitable containers sealed to exclude air. It can undergo auto oxidation in air and generate heat which can build up in a confined space.

Incompatibilities:

Avoid strong oxidizing agents and acids or acidic materials. Do not store in plastic containers. Avoid exposure to sparks, heat and flames.

G. SPILL OR LEAK PROCEDURES**Steps to be Taken in Case Material is Released or Spilled:** Remove sources of ignition. Use protective gloves to avoid skin contact and avoid inhalation by using a NIOSH-approved respiratory protection device suitable for the level of

exposure. Wear impervious boots. Small spills can be wiped up with vermiculite or other suitable absorbent material and removed to an approved disposal container. Large spills should be absorbed by dirt, sand, or other suitable absorbents for disposal. Do not hose spills down drains. Move leaking containers to well-ventilated area. No Smoking.

Waste Handling & Disposal Method: Dispose of in accordance with Federal, State and Local environmental regulations. Burning is recommended for waste disposal using an approved incinerator.

EPA HAZARDOUS WASTE NUMBER (40CFR261.21): D001

EPA REPORTABLE QUANTITY (49CFR1 72.101) APPENDIX: 100 LBS.

H. OCCUPATIONAL PROTECTIVE MEASURES

Respiratory Protection:	MSHA/NIOSH-approved organic vapor respiratory protection should be worn when TLV is exceeded in accordance with OSHA 29CFR1 910.134 or other applicable standards or guidelines.
Ventilation:	General mechanical ventilation (to reduce fumes) plus local exhaust at points of emission to maintain exposures below TLV(s) listed.
Protective Gloves:	Neoprene or Rubber - impervious gloves.
Eye Protection:	ALWAYS wear OSHA-approved chemical splash goggles with side shields OR full facepiece respirator as approved by NIOSH; full face shield to be worn with goggles and respirator if NOT a full facepiece respirator.
Other Protective Equipment:	Wear aprons, boots and other suitable body protection appropriate to the existing work environment.
Safety Stations:	Eye bath and safety shower; clothing to protect from skin contact.
Work/Hygienic Practices:	Good personal hygiene practices should be used. Wash after any contact, before eating, and at the end of the work period.

I. SPECIAL PRECAUTIONS

Handling and Storage Precautions:	Store in glass, tin-lined, stainless steel or epoxy-lined containers to preserve quality. Do not store in plastic. Store in closed containers away from heat or sources of ignition and oxidizing materials. Protect against physical damage to containers. Avoid inhalation and contact with skin and eyes. Areas containing this material should have fire safe practices and electrical equipment in accordance with electrical and fire protection codes (NFPA-30) governing Class I Liquids. KEEP AWAY FROM OPEN FLAMES. NO SMOKING in areas of use or storage.
Other Precautions:	Do not dispose of solvent or oil-soaked combustible materials (rags, paper, etc.) in an open container or trash can. Place rags in approved waste cans or soak with water.

J. ADDITIONAL INFORMATION

Permissible Concentrations References: ACGIH Threshold Limit Values (1988 - 1989). OSHA Standard 29CFR1910.1000 (1989). This product is listed on the EPA/TSCA Inventory of Chemical Substances.

California Prop 65: To the best of our knowledge, belief and current analytical methods, this product generally does not contain detectable amounts of any chemical known to the State of California to cause cancer or reproductive toxicity which has appeared on the list of such chemicals published by the Governor. However, contaminants in raw materials, incomplete chemical reactions, or other factors, may, from time to time, result in the inclusion in a product detectable amounts of material not generally present in this product.

SARA Hazard Category: According to our interpretation of Section 311 and 312 of the SARA Title III regulations, this product is considered, under applicable definitions, to meet the following categories:

AN IMMEDIATE HEALTH HAZARD

SARA 313: This product contains no substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40CFR Part 372.