

Pyrethrin

07/27/94

Safety	Chemistry	Management
Protective	Synonyms	Responsible
Toxicity	Incompatible	Manufacturer and Order Number
Health Effects	Structure	
PEL/TWA	Disposal	
NFPA	Hazardous Decomposition	
	Physical Data	

[Chemical Index](#) | [CAS Index](#) | [Help](#) | [Comments](#) | [Home](#)

Protective Equipment



Eyes

- Safety goggles should be worn if there is a likelihood of eye exposure.

Skin

- Wear protective gloves (nitrile or neoprene).
- Adequate clothing to prevent skin exposure.

Respiratory

- Typical use of product does not require the use of a respirator.
- Product should not be used in windy conditions or in a manner which would cause the chemical to be inhaled.

Special Precautions

- **Storage:**
 1. Store between 35-120°F

2. Store away from flames and other heat sources.

- **Handling:**

1. Do not puncture or incinerate. Do not use as space spray.
2. So not use in doors, on humans or on animals.

- **Ventilation:**

1. For outdoor use only.

[Chemical Index](#) | [CAS Index](#) | [Help](#) | [Comments](#) | [Home](#)

Toxicity

Toxicity Data

- **1,1,1-Trichloroethane**
 1. ORL-RAT LD50 10,300 mg/kg
 2. SKN-RBT 500 mg/24Hr. Moderate
 3. ORL-RBT LD50 5660 mg/kg
 4. EYE-RBT 2 mg/24 Hr. Severe
- **Sec-butyl Alcohol**
 1. ORL-RAT LD50 6480 mg/kg
 2. ORL-RBT LDLo 6000 mg/kg
- **Dimethoxymethane**
 1. IHL_RAT LC50 15000 ppm
 2. ORL-RAT LD50 5708 mg/kg
 3. SCU-GPG LDLo 3013 mg/kg
- **Aliphatic Petroleum Distillate**
 1. ORL-RAT LD50 >5g/kg
 2. SKN-RBT LD50 >3.16 g/kg

Laboratory animal studies have shown that prolonged and repeated inhalation exposure to light hydrocarbon vapors in the same boiling range as this chemical can produce adverse kidney effects in male rats. In a number of human (and animal) studies there was no clinical evidence of such effects.

- **Terpineol**
 1. SKN-RBT 500mg/24Hr. Moderate
 2. ORL-RAT LD50 4300 mg/kg
- **2-(1-Methylethoxy)Phenol Methyl Carbamate**
 1. ORL-RAT LD50: 69mg/kg
 2. SKN-RAT LD50: >5000mg/kg
 3. IHL-RAT LC50: >10 mg/L Hr.

High doses induced bladder cancer when fed to rats in one study but produced no cancers in other studies on rats and other mammals.

- **Petroleum Distillate**

1. UNK-MAN LDLo: 28 g/kg

Target Organs

- Liver, heart, skin, eyes.

[Chemical Index](#) | [CAS Index](#) | [Help](#) | [Comments](#) | [Home](#)

Health**Effects:**

- **Inhalation:** May cause dizziness, drowsiness, throat irritation, and respiratory irritation. Inhalation of large amounts of vapor may lead to the same symptoms as well as blood pressure depression, anesthesia, unconsciousness, asphyxiation, and even death.
- **Skin:** May cause irritation, defatting, dermatitis, and aggravation of existing skin conditions. May also be absorbed through the skin with possible symptoms of nausea, vomiting, dizziness, headache, constricted pupils, sweating, respiratory depression, cholinesterase depression, low blood pressure, cardiac irregularities, loss of reflexes, respiratory arrest, and even coma or death, depending on level of exposure.
- **Eyes:** May cause irritation, tearing, discomfort, blurred vision, and possible corneal injury.
- **Ingestion:** May cause headache, nausea, vomiting, dizziness, central nervous system depression, respiratory and cholinesterase depression, sweating, and constricted pupils. Chemical pneumonitis can occur if chemical is aspirated into the lungs during vomiting, and can lead to death.
- **Chronic Exposure:** Liver disease and rhythm disorders of the heart may be aggravated by exposure.

First Aid:

- **Inhalation:** Remove from the area to fresh air. If not breathing clear the airway and start mouth-to-mouth artificial respiration. Get immediate medical attention.
- **Skin:** Immediately wipe away material with a cloth while removing contaminated clothing and shoes. Wash affected areas thoroughly with large amounts of soap and water for at least 15 minutes. Get immediate medical attention. Discard or clean clothing and shoes.
- **Eye:** Immediately rinse eyes with water. Remove any contact lenses. Hold the

eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Continue flushing for at least 15 minutes. Get immediate medical attention.

- **Ingestion:** Give 3-4 glasses of water, but do not induce vomiting. If vomiting occurs, give fluids again. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.
- **Note to Physician:** Atropine sulfate is antidote.

[Chemical Index](#) | [CAS Index](#) | [Help](#) | [Comments](#) | [Home](#)

PEL/TWA

PEL

- OSHA PEL
- 1. 1,1,1-Trichloroethane 350ppm
 2. Dimethoxymethane 1000ppm
 3. Sec-Butyl Alcohol 150ppm
 4. 2-(1-Methylethoxy)Phenol Methyl Carbamate 0.5ppm
 5. Aliphatic Petroleum Distillate 300ppm
 6. Petroleum Distillate 100ppm
- ACGIH STEL TWA
- 1. 1,1,1-Trichloroethane 450ppm

TWA

- ACGIH TLV
- - 1.
 2. 1,1,1-Trichloroethane 350ppm
 3. Dimethoxymethane 1000ppm
 4. Sec-Butyl Alcohol 100ppm
 5. 2-(1-Methylethoxy)Phenol Methyl Carbamate 0.5ppm
 6. Aliphatic Petroleum Distillate 300ppm

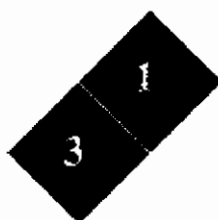
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Fire Hazard Data

- **Flash point:** 132°F (55°C)
- **Extinguishing Media:** Water spray, carbon dioxide, dry chemical powder or appropriate foam.

- **Special Procedures:** Fire extinguishing media should be chosen based on the nature of the surrounding fire. Fire-fighters should wear proper protective equipment and self-contained breathing apparatus.
- **Unusual Fire Hazards:** Fire-fighting should be done from upwind to minimize possibility of exposure to pesticide, smoke and fumes. Evacuate people downwind as appropriate.

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NFPA

- **Health:** 3
- **Flammability:** 1
- **Reactivity:** 0

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Synonyms

- Knock-Out CO₂ Aerosol

[Chemical Index](#) | [CAS Index](#) | [Help](#) | [Comments](#) | [Home](#)

Incompatibles

- Strong Acids
- Alkalies
- Oxidizers

[Chemical Index](#) | [CAS Index](#) | [Help](#) | [Comments](#) | [Home](#)

Structure

- Hazardous Ingredients:
 1. 1,1,1-Trichloroethane (CAS # 71-55-6)

2. Dimethoxymethane (CAS # 109-87-5)
3. Sec-Butyl Alcohol (CAS # 78-92-2)
4. Terpineol (CAS # 8000-47-1)
5. Mixed Terpene Alcohols and hydrocarbons
6. 2-(1-Methylethoxy)Phenol Methyl Carbamate (CAS # 114-26-1)
7. Aliphatic Petroleum Distillate (CAS # 64742-47-8)
8. Petroleum Distillate (CAS # 8030-30-6)

[Chemical Index](#) | [CAS Index](#) | [Help](#) | [Comments](#) | [Home](#)

Disposal

Spill Procedures:

- This product is an aerosol so a spill is unlikely.
- Contain spill.
- Pick up with an absorbent.
- Do not flush to sewer.
- Place into labeled container and seal.
- Contact your state pesticide or environmental control agency or the Hazardous waste representative at the nearest EPA regional office for guidance on disposal.

Disposal:

- Observe all federal, state, and local environmental regulations.

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Hazardous Decomposition

- Acrid smoke
- Fumes
- Phosgene
- Hydrogen chloride vapors.

[Chemical Index](#) | [CAS Index](#) | [Help](#) | [Comments](#) | [Home](#)

Physical Data

- Boiling point: 250°C
- Vapor Pressure: 13mm Hg
- Vapor Density: 5.5 (air=1)
- % Volatile/Volume: 99
- Evaporation Rate: (BuAc=1) 2.0

- Solubility in H₂O: appreciable
- Viscosity: non-viscous
- Specific Gravity: (H₂O=1) 1.23
- Appearance: Light yellow, transparent
- Odor: pyrethrin/pine

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Manufacturer

Kernite

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[Chemical Index](#) | [CAS Index](#) | [Help](#) | [Comments](#) | [Home](#)