

Eye Contact: Flush eyes with plenty of water. Get medical attention.

Skin Contact: Wash with plenty of soap and water. Call a physician if irritation persists.

Inhalation: Move person to fresh air. Apply artificial respiration if necessary, preferably mouth to mouth. Get immediate medical attention.

Notes to Physician

Induction of emesis is not recommended due to the large amount of petroleum solvent in this product, which could cause chemical pneumonia if aspirated. If ingested, lavage stomach, taking care to avoid aspiration of stomach contents into lungs. Check for possible mucosal damage before beginning gastric lavage. This product contains a pyrethroid. If a small amount is ingested, or if treatment is delayed, oral administration of large amounts of activated charcoal and a cathartic is probably sufficient therapy. Do not administer milk, cream or other substances containing vegetable or animal fats, which enhance the absorption of lipophilic substances.

Section 5: Fire Fighting Measures

Fire and Explosion

Flash Point (Test Method): 105-112°F (TCC)

Flammable Limits (% in air): Lower: 1.9 Upper: 12.6 @ 77 °F (approximate – solvent)

Autoignition temperature: 880 °F (approximate – solvent)

Unusual Fire, Explosion and Reactivity Hazards

The solvent in this product is a combustible liquid. Can form combustible mixtures at temperatures that are at or above the flash point.

In case of Fire

Use water fog, dry chemical, foam or CO₂ extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated. Use as little water as possible to prevent spread of contaminated runoff.

Section 6: Accidental Release Measures

Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, to prevent contact with spilled material. For small spills, cover the spill with an absorbent material such as pet litter. Sweep up and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

Section 7: Handling and Storage

Store the material in a well-ventilated, secure area, out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

Section 8: Exposure Controls/Personal Protection

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

Eye Contact: To avoid eye contact, wear safety glasses with side shields or chemical goggles.

Skin Contact: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, and long pants.

Inhalation: Avoid breathing vapors or mist.

Section 9: Physical and Chemical Properties

Appearance:	Clear, brown, liquid
Odor:	Aromatic solvent
Melting Point:	N/A
Boiling Point:	N/D
Specific Gravity/Density:	0.9102
pH:	4.5-6.0 (1% solution in water @ 25°C)
Solubility in water:	emulsifies
Vapor Pressure:	N/D

Section 10: Stability and Reactivity

Reactivity:

Stability	Stable
Hazardous Polymerization:	Will not occur
Conditions to avoid:	Flame, heat, ignition sources and strong oxidizers or reducing agents.

Hazardous Decomposition Products:

Carbon monoxide and/or carbon dioxide. Chlorine and hydrogen chloride may be formed.

Section 11: Toxicological Information

Acute Toxicity/Irritation Studies

Ingestion:	Oral LD ₅₀ : >5050 mg/Kg. (practically non-toxic)
Dermal:	Dermal LD ₅₀ : >5050 mg./Kg. (practically non-toxic)
Inhalation:	4-hour LC ₅₀ : 2.15 mg/L (practically non-toxic)
Eye Contact:	Corrosive (Rabbit)
Skin Contact:	Slightly irritating (Rabbit)
Skin Sensitization:	Sensitizer
Mutagenic Potential:	Permethrin did not produce any mutagenic effects when tested in the Ames test.

Reproductive Hazard Potential: Permethrin was not teratogenic when tested in rats.

Chronic/Subchronic Toxicity Studies:

Carcinogenic Potential: A statistically significant increase of lung and liver tumors was observed in female mice receiving diets containing 375 and 750 mg/Kg/day over 85 weeks.

Section 16: Other Information

NFPA Hazard Ratings:

Health	2	0	Least
Flammability	2	1	Slight
Reactivity	1	2	Moderate
		3	High
		4	Severe

Date Prepared: August 20, 1998
Supersedes: December 19, 1994
Reason: Complete Revision.

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