

Material Safety Data Sheet
U.S. Department of Labor (OSHA 29 CFR 1910.1200)

Manufacturer's Name: Prentiss Incorporated
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 Floral Park, NY 11001
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Section 1: Chemical Identification

Product: 655-783 Prentox® Perm-X™ 1E

EPA Signal Word: WARNING

Active Ingredient (%): Permethrin (13.3%) (CAS # 52645-53-1)
Chemical Name: 3-(phenoxyphenyl-methyl-(±)-cis, trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropane carboxylate
Chemical Class: Pyrethroid Insecticide

Section 2: Composition/Information on Ingredients

Material:	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Permethrin (13.3%)	N/A	N/A	Not Est.	No
Xylene Range Arom. Solv. (77.5%)			50ppm*	No
Contains:				
1,2,4-trimethylbenzene (<25%)	25ppm (125 mg/M ³)	25ppm (123 mg/M ³)	Not Est.	
Xylene (<2.5%) (mixed)	100 ppm (STEL=150 ppm)	100 ppm (STEL=150 ppm)	Not Est.	IARC,3
Cumene (<1.5%)	50 ppm(245 mg/M ³)	50 ppm (246 mg/M ³)	Not. Est.	
*Recommended by manufacturer				
Emulsifier 1 (CAS# N/A)	N/A	N/A	N/A	No
Emulsifier 2 (CAS# N/A)	N/A	N/A	N/A	No

Section 3: Hazards Identification

Primary Routes of Entry: Eye and skin contact.

Causes irreversible eye damage. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals.

Symptoms of Acute Exposure

Large, toxic doses of the active ingredient in this product administered to laboratory animals have produced central nervous system effects with symptoms that include diarrhea, salivation, bloody nose, tremors and intermittent convulsions. Overexposure to permethrin via inhalation also produced hyperactivity and hypersensitivity.

Section 4: First Aid Measures

Ingestion: Call a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of skim milk, egg whites, gelatin solution, or, if these are not available, large quantities of water. Avoid alcohol. This product contains aromatic petroleum solvent. Aspiration may be a hazard.

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

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

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