

# Safety Data Sheet

## Section 1 – Product Identification

Product Name: Permethrin 25 CS	EPA Registration #: 53883-282
Manufacturer: Control Solutions Inc. 5903 Genoa- Red Bluff Pasadena, TX 77507 281-892-2500	EPA Establishment #: 53883-TX-002

## Section 2 – Chemical Composition

Material	CAS #	% by Weight	ACGIH TLV
Permethrin	52645-53-1	23.60%	None Listed
Other Ingredients	N/A	76.40%	None Listed

## Section 3 – Hazard Identification

Symptoms of Toxicity: Permethrin may induce neurotoxic symptoms including diarrhea, salivation, tremors, convulsions, hyperactivity and hypersensitivity to touch or sound.

Flammability: Not flammable.

Reactivity: Stable under normal storage conditions.

Carcinogenicity: No evidence of carcinogenicity in long term animal studies.

## Section 4 – First Aid

General advice: First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for

Eye Contact: Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.

Inhalation: Remove person to fresh air. Call poison control center immediately. Give artificial respiration if necessary.

Ingestion: Call poison control center immediately. Do not induce vomiting unless directed to do so by physician.

Dermal Contact: Wash promptly with plenty of soap and water for 15-20 minutes. Wash contaminated clothing.

Notes/Physician's Information: You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.

**Section 5 – Fire and Explosion Hazards**

Flash Point:	Not applicable.	Upper Flammability Limit:	N/A
Extinguishing Media:	Foam, dry chemical, CO <sub>2</sub> , water fog	Lower Flammability Limit:	N/A
Special Procedures:	Use self-contained breathing apparatus. Cool fire exposed areas and equipment.		
Unusual Fire Hazards:	May release irritating and toxic gases due to thermal decomposition or combustion.		
Reactivity/Stability:	Stable. May release HCl, oxides of chlorine, CO, hydrogen and carbon. Avoid strong oxidizers and corrosives. Hazardous polymerization will not occur.		

**Section 6 – Spill/Release Procedures**

Absorbent:	Universal absorbent pads, vermiculite, absorbent booms, or clay granules.		
Containment:	Do not discharge into municipal wastewater or public storm drains. Eliminate runoff as much as possible.		
Waste Disposal:	Dispose of contaminated material in municipal land fill or through licensed TSDF. Not a hazardous waste under RCRA, 40 CFR 261.		
Reporting:	Report all major spills and uncontrolled releases to proper local, state, and federal agencies. RQ – As a mixture, 5 pounds or 0.5 gal.		
Emergency Contact #:	Chemtrec: 1-800-424-9300		

**Section 7 – Storage and Handling Instructions**

Storage Conditions:	Do not store near foodstuffs or feed. Store in a cool, dry, well-ventilated area away from flammable materials and sources of heat. Keep away from oxidizing agents and alkaline material.		
Special Handling Considerations:	Exercise caution to prevent damage to or leakage from the container. Workers should follow good hygiene practices to avoid accidental ingestion.		
Container Disposal:	Do not reuse empty containers. Triple rinse (or equivalent), then offer for recycling or render unusable and dispose of in municipal landfill or with licensed TSDF.		

**Section 8 – Protective Equipment/Engineering Controls**

Eye Protection:	ANSI approved goggles or safety glasses with side shields.		
Respiratory Protection:	NIOSH approved half-mask or full-face with P100 (HEPA) type filter.		
Dermal Protection:	Gloves, long sleeves, pants and shoes.		
Engineering Controls:	Use only in adequately ventilated areas.		

**Section 9 – Physical Data**

Odor:	Mild (cocoate)	Melting Point:	N/A
Physical State:	Liquid.	Flash Point:	Will not flash.
Color:	Off-white, viscous liquid.	Specific Gravity:	See bulk density
Bulk Density:	1.06 g/ml @ 20 C	pH:	6.1
Vapor Pressure:	N/A	Water Solubility:	Disperses in water.
Viscosity:	N/A	Refractive Index:	N/A

**Section 10 – Toxicity**

EPA Toxicity Category:	Signal word “Caution” required.	Oral LD <sub>50</sub> (a.i.):	>5000 mg/kg
Skin Contact:	Minimally irritating	Dermal LD <sub>50</sub> :	>20,000 mg/kg
Eye Contact:	No irritation	Inhalation LC <sub>50</sub> :	>20 mg/L
NFPA Classification:	Fire – 0 Reactivity – 0	Health – 1 Special – none	
Other Comments:	Avoid cross contamination. Always wash hands thoroughly after handling pesticides and before eating, drinking, or smoking.		

**Section 11 – Ecological Data (Information on Permethrin)**

Aquatic:	Permethrin: LC <sub>50</sub> (96h) for rainbow trout: 2.5 ug/L Permethrin: LC <sub>50</sub> (96h) for Bluegill: 1.8 ug/L
Avian	LD <sub>50</sub> Bobwhite quail- >10,000 mg/kg
Bioaccumulation:	Unlikely to bioaccumulate due to high acute toxicity.
Summary:	This product is extremely toxic to fish. Do not apply directly to water. Drifts and runoff from treated areas may be hazardous to aquatic organisms in treated areas.

**Section 12 – Transportation**

DOT:	Not DOT regulated
IATA:	Environmentally hazardous substance, liquid, n.o.s. (23.6% permethrin), UN3082, Class 9, PG III, marine pollutant
IMDG:	Environmentally hazardous substance, liquid, n.o.s. (23.6% permethrin), UN3082, Class 9, PG III, marine pollutant

**Section 13 – Regulatory**

Section 302/TPQ: (emergency planning)	Not regulated under section 302.
Section 304/EHS RQ: (release notification)	Not regulated under section 304.
CERCLA RQ: (release notification)	Not regulated under CIRCLA.
Section 311/Tier II: (MSDS submission)	Acute health hazard.
Section 313/TRI Chemicals:	Contains no TRI chemicals.
RCRA Haz-Waste Code(s):	Not an RCRA hazardous waste.
CAA TQ: (air emissions)	Not regulated under the CAA.

#### **Section 14 – Other**

NFPA and HMIS ratings assigned to this product are based on the hazards of its ingredient (s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.

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