

Product Name: Vector Ban Plus

EPA Registration #: 53883-257

Manufacturer: Control Solutions Inc.
5903 Genoa- Red Bluff
Pasadena, TX 77507
281-892-2500

EPA Establishment #: 53883-TX-002

Material

CAS #

% by Weight

OSHA PEL/ACGIH TLV

Permethrin

52645-53-1

10.0%

None established

Piperonyl Butoxide

51-03-6

10.0%

None established

Inert Ingredients

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80.0%

None established

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: Not carcinogenic.

Eye Contact:	Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.
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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. 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:	Will not flash.	Upper Flammability Limit:	N/A
Extinguishing Media:	Water fog, CO ₂ , foam, dry chemical	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, or clay granules.
Containment:	Do not discharge into municipal wastewater or public storm drains. Eliminate runoff as much as possible.
Waste Disposal:	Dispose of waste material in municipal land-fill or through licensed TSDF. Open dumping is prohibited. Not an RCRA hazardous waste.
Reporting:	Report all major spills and uncontrolled releases to proper local, state, and federal agencies.
Emergency Contact #:	Chemtrec: 1-800-424-9300

Section 7 – Storage and Handling Instructions

Storage Conditions:	Do not store near feed, food, or within the reach of children. Containers should be stored in a cool, dry, well-ventilated area away from flammable materials and ignition sources.
Special Handling Considerations:	Exercise caution to prevent damage to or leakage from containers.
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:	Avoid contact
Respiratory Protection:	None likely to be needed.
Dermal Protection:	Long sleeves, pants, shoes with socks.
Engineering Controls:	Use only in adequately ventilated areas.
Other Precautions:	Wash thoroughly after handling. Remove and wash clothing before reuse.

Section 9 – Physical Data

Odor:	Slight characteristic	Melting Point:	N/A
Physical State:	Viscous liquid	Flash Point:	N/A
Color:	Translucent yellow to white	Specific Gravity:	.92 (g/ml)
Bulk Density:	N/A	pH:	5.25
Vapor Pressure:	N/A	Water Solubility:	Emulsifies
Viscosity:	N/A	Refractive Index:	N/A

Section 10 – Toxicity

EPA Toxicity Category:	Caution	Oral LD ₅₀ :	>500 mg/kg
Skin Contact:	Slightly irritating	Dermal LD ₅₀ :	>1000 mg/kg
Eye Contact:	Slightly irritating	Inhalation LC ₅₀ :	>10 mg/kg
HMIS/NFPA Classification:	Fire - 0 Health - 1 Reactivity - 0 Special - none	Fire - 0 Health - 1 Reactivity - 0	
Other Comments:	Avoid cross contamination. Always wash hands thoroughly after handling pesticides and before eating, drinking, or smoking.		

Section 11 – Ecological Data

Aquatic:	Permethrin: LC ₅₀ (96h) for rainbow trout: 2.5 ug/L Permethrin: LC ₅₀ (96h) for Bluegill: 1.8 ug/L
Avian:	LD ₅₀ Bobwhite quail- >10,000 mg/kg
Bioaccumulation:	Does not bioaccumulate.
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 regulated
IATA:	Not regulated
IMDG:	Not regulated
Federal Motor Carrier Classification:	Insecticide, Liquid, Other Than Agriculture N.O.I.B.N.

Section 13 – Regulatory

Section 302/TPQ: (emergency planning)	Contains no components listed under section 302.
Section 304/EHS RQ: (release notification)	Contains no components listed under section 304.
CERCLA RQ: (release notification)	Not regulated by CERCLA.
Section 311/Tier II: (MSDS submission)	Acute health hazard.
Section 313/TRI Chemicals:	10.0% permethrin, CAS #: 52645-53-1 10.0% piperonyl butoxide, CAS #: 51-03-6
RCRA Haz-Waste Code(s):	None
CAA TQ: (air emissions)	None

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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