

Safety Data Sheet

Section 1 – Product Identification

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| Product Name: | Vector-Ban | EPA Registration #: | 53883-72 |
| Manufacturer: | Control Solutions Inc. 5903 Genoa- Red Bluff Pasadena, TX 77507 281-892-2500 | EPA Establishment #: | 53883-TX-002 |
| Recommended Usage: | Refer to product label for usage instructions. | | |
| Restrictions: | Refer to product label for product restrictions. | | |

Section 2 – Hazard Identification

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| Health: | Permethrin is a neurotoxin. Exposure may produce symptoms of neurotoxicity. Refer to Section 11 . |
| Environmental: | Permethrin is considered acutely toxic to aquatic life. Permethrin has low avian toxicity. Refer to Section 12 . |
| Physical: | None. |
| Unclassified: | None. |
| GHS Classification: (Permethrin) | <ul style="list-style-type: none"> • Environmental toxicity: Acute Aquatic, Category 1 (severe). • Carcinogenicity: Category 2 (suspected). • Eye irritation: Category 2B (mild). |

Section 3 – Chemical Composition

| Material | CAS # | % by Weight | OSHA PEL |
|-------------------|------------|-------------|------------------|
| Permethrin Tech | 52645-53-1 | 10.00% | None established |
| Inert Ingredients | - | 90.00% | None established |

Section 4 – First Aid

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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| If swallowed | <ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person. |
| If inhaled | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice. |

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| If in eyes | <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice. |
| If on skin or clothing | <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice. |
| <p>NOTE TO PHYSICIAN AND VETERINARIANS: Do not administer or instill milk, cream or other substances containing vegetable or animal fats which will enhance absorption of lipophilic substances. You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.</p> | |

Section 5 – Firefighting Measures

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| Flash Point: | Will not flash. May decompose and burn under fire conditions. |
| Extinguishing Media: | Water fog, CO ₂ , foam, dry chemical |
| Procedures: | Use self-contained breathing apparatus. Use water fog or spray to cool fire-exposed areas and equipment. |
| Unusual Fire Hazards: | Chemical fires have potential to emit hazardous decomposition products. Refer to Section 10 for more information. |

Section 6 – Accidental Release Measures

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| Absorbent Materials: | 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: | Vacuum or sweep absorbent material into waste recovery drum. Dispose of contaminated materials 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 – Handling and Storage Instructions

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| Storage Conditions: | Store upright at room temperature. Avoid exposure to extreme temperatures. Do not store near heat or open flame. Store away from foodstuffs, feed, and children. |
| Special Handling Considerations: | Avoid dermal contact and cross contamination. Take precautions to avoid damaging containers. Always wash hands thoroughly after handling pesticides and before eating, drinking, or smoking. Clean water should be available to rinse eyes and skin in case of chemical exposure. |

Section 8 – Engineering Controls and Protective Equipment

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| Engineering Controls: | Use only in adequately ventilated areas. |
| Eye Protection: | ANSI approved goggles or safety glasses with side shields are recommended. |
| Respiratory Protection: | None likely to be needed. NIOSH approved P class filtering face piece or |

respirator may be used to minimize inhalation of aerosols.
 Dermal Protection: Chemical resistant gloves, long sleeves, pants, shoes with socks.
 Other Precautions: Wash thoroughly after handling. Remove and wash clothing before reuse.

Section 9 – Physical and Chemical Properties

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| Odor: | Slight characteristic. | Melting Point: | Not available. |
| Physical State: | Liquid. | Flash Point: | Will not flash. |
| Color: | Translucent yellow to white. | Specific Gravity: | 1.0758 (g/ml) |
| Bulk Density: | 8.46 (lbs/gal) | pH: | Not available. |
| Vapor Pressure: | Not available. | Water Solubility: | Emulsifies. |
| Viscosity: | Not available. | Refractive Index: | Not available. |

Section 10 – Stability and Reactivity

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| Flash Point: | Will not flash. |
| Lower Flammability Limit: | Not applicable. |
| Upper Flammability Limit: | Not applicable. |
| Hazardous Polymerization: | Will not occur. |
| Decomposition Products: | May release irritating and toxic gases due to thermal decomposition. Products of combustion include cyanide, CO, and CO ₂ . |
| Conditions to Avoid: | Stable under normal storage conditions. Avoid exposure to extreme temperatures. |
| Incompatible Materials: | Strong oxidizers. |

Section 11 – Toxicity and Symptoms of Overexposure

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| Routes of Exposure: | Dermal, eye, inhalation, ingestion. |
| Skin Contact: | Slightly irritating. Permethrin may cause tingling sensation known as parasthesia at point of contact. |
| Eye Contact: | Slightly irritating. May cause redness and tearing. |
| Ingestion: | Permethrin is a neurotoxin. Ingestion may induce neurotoxic symptoms including diarrhea, salivation, tremors, convulsions, hyperactivity and hypersensitivity to touch or sound. |
| Inhalation: | May cause nasal or respiratory irritation. |
| Oral LD ₅₀ : | >500 mg/kg |
| Dermal LD ₅₀ : | >1000 mg/kg |
| Inhalation LC ₅₀ : | >10 mg/kg |
| Carcinogenicity: | <ul style="list-style-type: none"> • IARC: Group 3 (not carcinogenic) • GHS: Category 2 (suspected) |
| Teratogenicity: | Not a teratogen. |
| Embryo toxicity: | None. |
| Reproductive Effects: | None. |
| Mutagenicity: | None. |

Section 12 – Ecological Data*

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| Aquatic: | LC ₅₀ (96h) for rainbow trout: 2.5 ug/L |
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| (Permethrin) | LC ₅₀ (96h) for Bluegill: 1.8 ug/L |
| Avian: | LD ₅₀ Bobwhite quail- >10,000 mg/kg |
| (Permethrin) | |
| Bioaccumulation: | Permethrin is unlikely to accumulate due to high acute toxicity. |
| Environmental Fate: | The average half-life of permethrin in aerobic soils is 39.5 days, with a range from 11.6 to 113 days. Permethrin binds tightly to soil and is quickly broken down by both microorganisms and photolysis. |
| 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 13 – Disposal Considerations*

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| Pesticide Disposal: | Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for Guidance. |
| Container Disposal: | Container Disposal: If empty - Nonrefillable container: Do not reuse or refill this container. Offer for recycling if available. If recycling is not available: then dispose of container in a sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. If partly filled: Call your local solid waste agency for disposal instructions. Unless otherwise instructed, place in trash. Never pour unused product down the drain or on the ground. |

Section 14 – Transportation*

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| DOT: | Not regulated. |
| IATA: | UN3082, Environmentally hazardous substance, n.o.s. (10% permethrin), Class 9, PG III |
| IMDG: | UN3082, Environmentally hazardous substance, n.o.s. (10% permethrin), Class 9, PG III, marine pollutant |

Section 15 – Regulatory*

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| 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, delayed health hazard. |
| Section 313/TRI Chemicals: | 10.0% permethrin, CAS - 52645-53-1. |
| RCRA Haz-Waste Code(s): | None. |
| CAA TQ: (air emissions) | None. |

EPA/FIFRA Toxicity

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| Category: | III |
| EPA Signal Word: | CAUTION |
| State Specific | Not determined. |
| Regulations: | |
| International Regulations: | Not determined. |

Section 16 – Other

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| HMIS/NFPA Classification: | Fire - 0 | Health - 1 |
| | Reactivity - 0 | Special - none |
| Date of Last Revision: | August 2, 2011 | |
| Hazcom Training | Yes. | |

Necessary:

NFPA and GHS 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.

DISCLAIMER

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*Section is not required by 29 CFR 1910.1200 the Hazcom standard, but is provided for compliance with United Nations Globally Harmonized System (GHS).