

# Safety Data Sheet

## Section 1 – Product Identification

Product Name:	Martin's Vegetables Plus	EPA Registration #:	53883-69
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

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

## Section 3 – Chemical Composition

Material	CAS #	% by Weight	OSHA PEL
Permethrin Tech	52645-53-1	10.00%	None established 2mg/m <sup>3</sup> (Contains 0.0325% Sodium Hydroxide)
Inert Ingredients	-	90.00%	

## Section 4 – First Aid

Eye Contact:	Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.
Inhalation:	Move person to fresh air. If person is not breathing, give artificial respiration. Call a poison control center for further treatment advice.
Ingestion:	Call poison control center immediately for treatment advice. Do not induce vomiting unless directed to do so by a poison control center. Do not give anything by mouth to an unconscious person.
Dermal Contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center for treatment advice if irritation persists.
Physician's Information:	You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.
Notes:	Refer to <b>Section 11</b> for symptoms of overexposure.

### Section 5 – Firefighting Measures

Flash Point:	Will not flash. May decompose and burn under fire conditions.
Extinguishing Media:	Water fog, CO <sub>2</sub> , 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 <b>Section 10</b> for more information.

### Section 6 – Accidental Release Measures

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 TSD. 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

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

Engineering Controls:	Use only in adequately ventilated areas.
Eye Protection:	None required. ANSI approved safety glasses 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.

### Section 9 – Physical and Chemical Properties

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

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 <sub>2</sub> .
Conditions to Avoid:	Stable under normal storage conditions. Avoid exposure to extreme temperatures.
Incompatible Materials:	Strong oxidizers.

## Section 11 – Toxicity and Symptoms of Overexposure

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 <sub>50</sub> :	>500 mg/kg
Dermal LD <sub>50</sub> :	>1000 mg/kg
Inhalation LC <sub>50</sub> :	>10 mg/kg
Carcinogenicity:	Category 1B (likely)
Teratogenicity:	Not a teratogen.
Embryo toxicity:	None.
Reproductive Effects:	None.
Mutagenicity:	None.

## Section 12 – Ecological Data\*

Aquatic: (Permethrin)	LC <sub>50</sub> (96h) for rainbow trout: 2.5 ug/L LC <sub>50</sub> (96h) for Bluegill: 1.8 ug/L
Avian: (Permethrin)	LD <sub>50</sub> Bobwhite quail- >10,000 mg/kg
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\*

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:	<b>Container Disposal:</b> 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. <b>If partly filled:</b> 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\*

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\*

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 Category:	III
EPA Signal Word:	CAUTION
State Specific Regulations:	N/A
International Regulations:	N/A

## Section 16 – Other

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**

**The information provided on this Material Safety Data Sheet is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Control Solutions, Inc. The data on this sheet relates only to the specific material designated herein. Control Solutions, Inc. assumes no legal responsibility for the accuracy or completeness of this data, nor for use or reliance upon this data.**

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