

Safety Data Sheet

Section 1 – Product Identification

Product Name:	Bifen I/T	EPA Registration #:	53883-118
Manufacturer:	Control Solutions Inc. 5903 Genoa- Red Bluff Pasadena, TX 77507 281-892-2500	EPA Establishment #:	53883-TX-002
Recommended Usage:	Apply only as directed by product label.		
Restrictions:	Refer to product label for usage restrictions.		

Section 2 – Hazard Identification

Health:	Harmful if swallowed. Bifenthrin is a neurotoxin. Exposure may produce symptoms of neurotoxicity. Refer to Section 11 .
Environmental:	Bifenthrin is considered acutely toxic to aquatic life. Bifenthrin has low avian toxicity. Refer to Section 12 .
Physical:	None.
Unclassified:	None.
GHS Classification:	<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
Bifenthrin	82657-04-3	7.9%	None established
Inert ingredients	56-81-5	92.1% (contains >1% glycerin)	10 mg/m ³ (glycerin mist)

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 Section 11 for symptoms of overexposure.

Section 5 – Firefighting Measures

Flash Point:	Will not flash
Extinguishing Media:	Water fog, CO ₂ , foam, dry chemical.
Procedures:	Use self-contained breathing apparatus. Cool fire exposed areas and equipment.
Unusual Fire Hazards:	Pesticide fires have potential to emit hazardous decomposition products. Refer to Section 10 for more information.

Section 6 – Accidental Release Measures

Absorbent Materials:	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:	Vacuum or sweep contaminated absorbent material into suitable container. Seal container and dispose of all contaminated waste material 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. Take precautions to avoid damaging containers. Avoid cross contamination. 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:	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:	Clean water should be available to rinse eyes and skin in case of chemical exposure. Wash thoroughly after handling. Remove and wash clothing before reuse.

Section 9 – Physical and Chemical Properties

Odor:	Mild characteristic.	Melting Point:	Not available.
Physical State:	Liquid.	Flash Point:	See Section 10.
Color:	Off white.	Specific Gravity:	1.038 (g/ml)
Bulk Density:	See specific gravity.	pH:	5.8-6.2
Vapor Pressure:	Not available.	Water Solubility:	Dispersible.
Viscosity:	600-700 cps.	Refractive Index:	Not available.

Section 10 – Stability and Reactivity

Flash Point:	Will not flash. May decompose or burn in conditions of a fire.
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

Routes of Exposure:	Dermal, eye, inhalation, ingestion.
Skin Contact:	Slightly irritating. Slightly irritating. Permethrin may cause tingling sensation known as parasthesia. Symptoms for permethrin are reversible within 48 hrs.
Eye Contact:	Slightly irritating. May cause redness and tearing. Symptoms for permethrin reversible within 72 hrs.
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.
Other Chronic Effects:	None.

Section 12 – Ecological Data*

Aquatic: (Permethrin)	LC ₅₀ (96h) for rainbow trout: 2.5 ug/L LC ₅₀ (96h) for Bluegill: 1.8 ug/L
Avian: (Permethrin)	LD ₅₀ Bobwhite quail- >10,000 mg/kg
Bioaccumulation:	Unlikely to bioaccumulate 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 broken down primarily by microorganisms, but also by 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, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.☐
Container Disposal:	<p>Do not reuse or refill container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities, such as burning of plastic containers. If burned, stay out of smoke. Triple rinse as follows:</p> <p>[Containers 5 gallons or less: Empty the remaining contents into application equipment and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Once cleaned, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities. Do not cut or weld metal containers.]</p> <p>[Containers larger than 5 gallons: Empty the remaining contents into application equipment. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Once cleaned, offer for recycling or reconditioning if appropriate.]</p> <p>[Pressure rinse as follows (all sizes): Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.]</p> <p>[Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Return container to point of purchase for reuse with seal intact and in salable condition. Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container.</p> <p>To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing process two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.]</p>

Section 14 – Transportation*

DOT:	Not Regulated.
IATA:	Environmentally hazardous substance, liquid, n.o.s. (7.9% bifenthrin), Class 9, UN3082, PG III
IMDG:	Environmentally hazardous substance, liquid, n.o.s. (7.9% bifenthrin), Class 9, UN3082, PG III, marine pollutant
FMCC:	Insecticides, NOI, other than Poison. NMFC Item 102120.

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:	Bifenthrin, CAS - 82657-04-3.
RCRA Haz-Waste Code(s):	None.
CAA TQ: (air emissions)	None.
EPA/FIFRA Toxicity Category:	III
EPA Signal Word:	Caution.
State Specific Regulations:	Not determined.
International Regulations:	Not determined.

Section 16 – Other

HMIS/NFPA Classification:	Fire - 0	Health - 1
	Reactivity - 0	Special - none
Date of Last Revision:	August 12, 2011.	
Hazcom Training Necessary:	Yes.	

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.

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).