Safety Data Sheet

Section 1 – Product Identification			
Product Name:	Surrender Termite Killer 5	EPA Registration #:	53883-178
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:	• 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	2.4%	None established
Inert ingredients	56-81-5	97.6%	None established

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, 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 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

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 chemical.	Melting Point:	Not available.
Physical State:	Liquid.	Flash Point:	Not flammable.
Color:	Eggshell white.	Specific Gravity:	0.986 g/ml
Bulk Density:	8.23 lbs/gal	pH:	3.5
Vapor Pressure:	Not available.	Water Solubility:	Miscible
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_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 and ingestion.
Skin Contact:	Slightly irritating. Bifenthrin may cause tingling sensation known as parasthesia. Symptoms for bifenthrin are reversible within 72 hrs.
Eye Contact:	Mildly irritating. May cause redness and tearing. Symptoms for bifenthrin reversible within 24 hrs.
Ingestion:	Bifenthrin 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}:	>2000 mg/kg
Inhalation LC_{50}:	>10 mg/kg
Carcinogenicity:	• 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: (Bifenthrin)	LC_{50} = 0.0038 µg /L to 17.8 µg/L
Avian: (Bifenthrin)	LD_{50} = 1.28 g/kg
Bioaccumulation:	Unlikely to bioaccumulate due to high acute toxicity.
Environmental Fate:	The aerobic half-life of bifenthrin in soil ranges from 97-250 days. Bifenthrin is immobile in soil containing high amounts of silt, clay, and organic matter and has low mobility in sandy soil containing small amounts of organic matter.
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:	**For Containers equal to or less than 5 Gallons**: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank 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 application equipment or a 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. 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. **For Containers greater than 5 Gallons**: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it 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. 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. **For Bulk containers**: (Refillable Container) Refill this container with pesticides 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 re-filler. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or re-circulate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

Section 14 – Transportation*

DOT:	Not regulated.
IATA:	UN3082, Environmentally hazardous substance, n.o.s. (2.4% bifenthrin), Class 9, PG III
IMDG:	UN3082, Environmentally hazardous substance, n.o.s. (2.4% bifenthrin), 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:	Bifenthrin, CAS #: 82657-04-3.
RCRA Haz-Waste Code(s):	Not an RCRA hazardous waste.
CAA TQ: (air emissions)	Not applicable.
EPA/FIFRA Toxicity Category:	Category III
EPA Signal Word:	Caution.
State Specific Regulations:	None known.
International Regulations:	None established.

Section 16 – Other

HMIS/NFPA Classification:	Fire - 0	Health - 1
	Reactivity - 0	Special - none
Date of Last Revision:	September 13, 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).