

Safety Data Sheet

Section 1 – Product Identification

Product Name:	Martin's [®] Flyban Synergized Pour On	EPA Registration #:	53883-74
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. 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:	Combustible liquid.
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
Permethrin	52645-53-1	7.4%	None established
Piperonyl Butoxide	51-03-6	7.4%	None established
Inert Ingredients	-	85.2%	Oil Mist: 5 mg/m ³ Petroleum Solvent: 2900 mg/m ³

Section 4 – First Aid

FIRST AID

Have the product container or label with you when calling the poison control center or doctor, or going for treatment. You may also contact SafetyCall[®] International (866) 897-8050 for emergency medical treatment information.

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 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.

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 swallowed	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
<p>Note to Physician: This product may pose an aspiration pneumonia hazard. Contains petroleum distillate.</p>	

Section 5 – Firefighting Measures

Flash Point:	185°F
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:	Absorb using universal or oil-only absorbent pads, vermiculite, absorbent booms, or clay granules. Wash contaminated area with soap and water. Absorb rinse in a similar fashion.
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.
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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.

Section 8 – Engineering Controls and Protective Equipment (continued from page 2)

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 aromatic.	Melting Point:	Not determined.
Physical State:	Liquid.	Flash Point:	See Section 10.
Color:	Yellow/amber.	Specific Gravity:	0.86 g/ml
Bulk Density:	7.21 lbs/gal	pH:	4.5-5.0
Vapor Pressure:	Not determined.	Water Solubility:	Negligible.
Viscosity:	Not determined.	Refractive Index:	Not determined.

Section 10 – Stability and Reactivity

Flash Point: 185°F
Lower Flammability Limit: Not determined.
Upper Flammability Limit: Not determined.
Hazardous Polymerization: Will not occur.
Decomposition Products: May release irritating and toxic gases due to thermal decomposition. Products of combustion include NO_x, CO, and CO₂.
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. 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 LD₅₀: >300 mg/kg
Dermal LD₅₀: >1000 mg/kg
Inhalation LC₅₀: >10 mg/L
Carcinogenicity:

- IARC: Group 3 (not carcinogenic)
- EPA: Group C (possible carcinogen)
- GHS: Category 2 (suspected carcinogen)

Section 11 – Toxicity and Symptoms of Overexposure (continued from page 3)

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 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 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:	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*

DOT:	Bulk: NA1993, combustible liquid, n.o.s. (petroleum distillates and 7.4% permethrin), Class 3, PG III
IATA:	UN3082, Environmentally hazardous substance, n.o.s. (7.4% permethrin), Class 9, PG III
IMDG:	UN3082, Environmentally hazardous substance, n.o.s. (7.4% 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, fire hazard.
Section 313/TRI Chemicals:	7.4% permethrin, CAS - 52645-53-1 7.4% piperonyl butoxide, CAS - 51-03-6
RCRA Haz-Waste Code(s):	Not an RCRA hazardous waste.
CAA TQ: (air emissions)	Not regulated by the Clean Air Act.
EPA/FIFRA Toxicity Category:	III
EPA Signal Word:	CAUTION
State Specific Regulations:	Not established
International Regulations:	Not established

Section 16 – Other

HMIS/NFPA Classification:	Fire - 1	Health - 0
	Reactivity - 0	Special - none
Date of Last Revision:	November 9, 2011	
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).