

MATERIAL SAFETY DATA SHEET

Martin's Dairy & Livestock Insecticide

EMERGENCY PHONE NUMBERS

MEDICAL: 800-225-3320 (Prosar)

TRANSPORTATION: 800-424-9300 (Chemtrec)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Martin's Dairy & Livestock Insecticide

EPA Reg. No.: 499-323-53883

Product Code:

EPA Signal Word: CAUTION

Distributed by: Control Solutions, Inc.
5903 Genoa-Red Bluff
Pasadena, TX 77507-1041

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION INFORMATION

Active Ingredients (4.5%)	%	Cas No.
Pyrethrins	0.5%	8003-34-7
Piperonyl Butoxide Technical	4.0%	51-03-6

Other Ingredients* (95.5%)	%	Cas No.
Dimethyl Ether	proprietary	115-10-6
Isoparaffinic Petroleum Solvent	proprietary	64742-48-9
Isopropanol	proprietary	67-63-0

*All ingredients may not be listed. Ingredients not listed do not meet the reporting requirements of OSHA's Hazard Communication Standard (HCS) as specified in 29 CFR 1910.1200.

EXPOSURE INFORMATION

Material	OSHA PEL		ACGIH TLV	
	STEL	TWA	STEL	TWA
Pyrethrins	NE	NE	10 mg/M ³	5 mg/M ³
Piperonyl Butoxide, Tech.	NE	NE	NE	NE
Dimethyl Ether	NE	NE	NE	1000 ppm
Isoparaffinic Petroleum Solvent	NE	500 ppm	NE	NE
Isopropanol	NE	400 ppm	500 ppm	400 ppm

SECTION 3. HAZARDS IDENTIFICATION

SIGNS/SYMPTOMS OF EXPOSURE

Prolonged exposure may cause skin irritation and drying of nose and throat. May cause eye irritation.

ROUTES OF ENTRY

Primary: Inhalation Secondary: Skin Tertiary: Ingestion

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition in open flame may result in carbon dioxide and carbon monoxide.

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

Contents under pressure. Exposure to temperatures above 130° F may cause bursting.

SECTION 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. Describe any symptoms and follow the advice given.

Ingestion: 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.

Inhalation: 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.

Skin Contact: 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.

Eye Contact: Hold eyes open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

Medical Conditions Generally Aggravated by Exposure: None known.

Emergency Telephone Number of Prosar: 800-225-3320 (for medical emergencies)

SECTION 5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION

Flash Point: NE

Flame Extension: Less than 18 inches

Explosive Limits of propellant in Air (% by volume):

Lower (LEL) = 3.4% Upper (UEL) = 18.0%

NFPA 30B Flammability: Level I Aerosol

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

Contents under pressure. Exposure to temperatures above 130° F may cause bursting.

IN CASE OF FIRE

Extinguisher Media: CO₂; Dry Chemical; Foam.

Special Fire Fighting Procedures: None required.

SECTION 6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR LEAK

If container begins to leak (through puncture, etc.) allow to discharge completely in well ventilated area, then dispose of as directed below.

This product contains the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) listed chemical *Pyrethrins* which has a reportable quantity (RQ) of 1 lb. A release of more than 200 pounds of this product (approx. 160 twenty ounce or 128 twenty-five ounce containers) is reportable to the National Response Center (800-424-8802). Emergency Telephone Number of Chemtrec: (800) 424-9300 (for transportation spills)

PROTECTIVE EQUIPMENT FOR CLEANUP PERSONNEL

Eyes: Use proper protection – safety glasses are recommended.

Skin: Wear chemical resistant gloves. (Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.)

Inhalation: Use of a respirator may be appropriate when working with spills in enclosed or confined spaces. If using a respirator, wear a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

WASTE DISPOSAL METHOD

Do not contaminate water, food or feed by storage or disposal of wastes. Take full or leaking containers to a local disposal company for biological treatment or incineration. Review all local, State, and Federal regulations concerning health and pollution to determine approved disposal procedures. NEVER PLACE WASTES DOWN ANY INDOOR OR OUTDOOR DRAIN OR SEWER.

SECTION 7. HANDLING AND STORAGE

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Keep out of reach of children. CAUTION – Harmful if swallowed or absorbed through skin.

Do not remain in treated area and ventilate the area after treatment is completed. Avoid breathing of vapor. Avoid contact with skin, eyes, or clothing. Wash thoroughly after using and before smoking or eating. Do not contaminate water, food, or foodstuffs. Remove all pets and birds. Cover fish tanks or remove before spraying.

PHYSICAL OR CHEMICAL HAZARDS

Flammable. Contents under pressure. Keep away from heat, sparks, and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. Do not spray on plastic, painted, or varnished surfaces or directly into any electronic equipment such as radios, televisions, computers, etc.

STORAGE

Store in a cool area away from heat or open flame. Do not contaminate water, food or feed by storage. For best results, product should be used when can temperature is above 60° F. If can temperature is below 60°, store at room temperature until a temperature above 60° F is reached.

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Respiratory Protection: For prolonged exposure or if used in enclosed areas, a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter may be used.

Ventilation: Provide adequate ventilation of treatment area.

Protective Gloves: None required. If prolonged or repeated skin contact is likely, chemical resistant gloves are recommended. Good practice requires that gross amount of any chemical be removed from the skin as soon as practical, especially before eating or smoking.

Eye Protection: None required. Safety glasses or goggles are recommended.

Other Protective Equipment: None required.

VENTILATION

Local Exhaust: None required.

Mechanical: None required.

Special: None required.

Other: Provide adequate ventilation of treatment area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, yellow, pressurized liquid

Solubility in Water: Slight

Viscosity: 0.8 cps @ 20° C

Boiling Point: NE

pH (Conc.): NE

Odor: Characteristic Pyrethrum odor

Vapor Pressure: 65 psig @ 70° F

Vapor Density: NE

Freezing/Melting Point: NE

Density (Conc.): NE

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY

Stability: Indefinite when used according to label directions.

Conditions to Avoid: Do not spray into flame or onto very hot surfaces.

Incompatibility (Material to Avoid): None known.

Hazardous Polymerization: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition in open flame may result in carbon dioxide and carbon monoxide.

SECTION 11. TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY

Primary: Inhalation

Secondary: Skin

Tertiary: Ingestion

ACUTE

Eyes: May cause irritation. Produced mild conjunctival irritation in rabbits reversible in one (1) hour.

Skin: Prolonged exposure may cause skin irritation. Produced no irritation in rabbits.

Average primary skin irritation score = 0. Acute dermal LD₅₀ > 2,000 mg/kg. Not a dermal sensitizer in guinea pigs.

Ingestion: Acute oral LD₅₀ = 4,350 mg/kg (rats).

Inhalation: Unlikely due to the product being pressurized and producing particles large enough not to be respirable. A few cases of asthma from pyrethrin mixtures have been reported. Prolonged exposure may cause drying of nose and throat. Acute inhalation $LC_{50} > 5.42$ mg/L (rats).

CHRONIC / CARCINOGENICITY

Neither this product nor any of its ingredients are classified as carcinogens by the National Toxicity Program (NTP), the International Agency for Research on Cancer (IARC) or the Occupational Safety and Health Administration (OSHA).

SECTION 12. ECOLOGICAL INFORMATION

This product is toxic to fish, birds, and other wildlife. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Apply this product only as specified on this label.

SECTION 13. DISPOSAL CONSIDERATION

Do not contaminate water, food or feed by disposal. Dispose of container and wastes in accordance with all Federal, state and local regulations.

Container Disposal: Do not puncture or incinerate. Empty container by using the product according to the label directions. Offer empty container for recycling, if available, or place in trash if allowed by state and local regulations. If container is partly filled, contact your local solid waste agency or call 1-800-CLEANUP for disposal instructions.

Waste Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

SECTION 14. TRANSPORT INFORMATION

SHIPMENT BY GROUND WITHIN U.S. (DOT CLASSIFICATION)

Proper Shipping Description: Consumer Commodity, ORM-D

Package Marking: "Consumer Commodity, ORM-D"

Package Labeling: None required.

Certified Packaging: Not required.

SHIPMENT BY OCEAN (IMDG CLASSIFICATION)

Proper Shipping Description: Dangerous Goods in Limited Quantities of Class 2.1

Package Marking: "Dangerous Goods in Limited Quantities of Class 2.1"

Package Labeling: None required.

Certified Packaging: Not required.

SHIPMENT BY AIR (ICAO/IATA CLASSIFICATION)

Proper Shipping Description: Aerosols, 2.1, UN 1950, LTD. QTY.

Package Marking: "Aerosols, UN 1950, LTD. QTY."

Package Labeling: Label as "Flammable Gas" (class 2).

Certified Packaging: Not required.

Other Requirements or Instructions: Complete air bill with packing instruction "Y203, ERG code 10L"

SECTION 15. REGULATORY INFORMATION

CERCLA

This product contains the CERCLA listed chemical *Pyrethrins* which has a reportable quantity (RQ) of 1 lb.

SARA TITLE III SECTION 311/312 HAZARD CLASS

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- Acute Health Hazard
- Fire Hazard
- Release of Pressure (puncture) Hazard

SARA TITLE III SECTION 313 CHEMICALS

This product contains the following substances subject to the reporting requirements of Section 313 of the Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Piperonyl Butoxide 4.0% by weight.

TSCA

All components of this product are listed or excluded from listing on the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

SECTION 16. OTHER INFORMATION

NFPA HEALTH RATING INFORMATION

Health - 1 Flammability - 2 Reactivity - 1

HMIS HAZARD RATING INFORMATION

Health - 1 Flammability - 2 Reactivity - 1

Key: 4 = Severe, 3 = Serious, 2 = Moderate, 1 = Slight, 0 = Minimal

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

Questions concerning the safe handling of the product should be referred to the Control Solutions, Inc. at 281-892-2500.

NA - Not Applicable

NE - Not Established

PEL - Permissible Exposure Limit

TLV - Threshold Limit Value

STEL - Short Term Exposure Limit (15 min.)

TWA - Time Weighted Average (8 hrs)

Effective Date: 08/05/04

Review Date: NA