

# MATERIAL SAFETY DATA SHEET

## CLEAR ZONE® Farm Fly Spray

### EMERGENCY PHONE NUMBERS:

**MEDICAL:** 800-225-3320 (Prosar)

**TRANSPORTATION:** 800-424-9300 (Chemtrec)

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** CLEAR ZONE® Farm Fly Spray  
**EPA Reg. No.:** 499-323  
**Product Code(s):** 09-3005 (6 x 25 oz)  
**EPA Signal Word:** CAUTION  
**Distributed by:** Whitmire Micro-Gen Research Laboratories, Inc.  
 3568 Tree Court Industrial Blvd.  
 St. Louis MO 63122-6682

### 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.
Isopropanol	proprietary	67-63-0
Dimethyl Ether	proprietary	115-10-6

\* All ingredients may not be listed. Ingredients not listed do not meet the reporting requirements of the OSHA 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 <sup>3</sup>	5 mg/m <sup>3</sup>
Piperonyl Butoxide, Technical	NE	NE	NE	NE
Isopropanol	NE	400 ppm	500 ppm	400 ppm
Dimethyl Ether	NE	NE	NE	1,000 ppm

### SECTION 3. HAZARDS IDENTIFICATION

#### SIGNS/SYMPTOMS OF EXPOSURE

Harmful if swallowed or absorbed through skin. Prolonged or repeated contact with skin may cause allergic reaction in some individuals. May also cause drying of the nose and throat and 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:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Skin Contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 min. Call a poison control center or doctor for treatment advice.

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

**Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Note to Physician:** None

**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 (TCC):** NE

**Flame Projection:** < 18"

**Explosibility 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:** CO<sub>2</sub>, Dry Chemical, Foam

**Special Fire Fighting Procedures:** Fire fighting personnel should wear normal protective equipment and positive pressure self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### IN CASE OF SPILL OR LEAK

If container begins to leak (through puncture, etc.), eliminate all ignition sources and 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 lbs of this product (approx. 128 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, or when prolonged exposure to product vapor or spray mist may occur. When using a respirator, wear a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R or P prefilter. See 29 CFR 1910.134 for respiratory protection, training and testing requirements.

#### 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 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.

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**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

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

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### SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Respiratory Protection:** None required for typical use exposure. See Section 6 for atypical exposure.

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

**Eye Protection:** Use proper protection – safety glasses 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    **Odor:** Typical of Pyrethrins  
**Solubility in Water:** Disperses    **Vapor Pressure:** 65 psig @ 70°F  
**Viscosity:** 0.8 cps @ 68°F (conc.)    **Vapor Density:** NE  
**Boiling Point:** NE    **Freezing/Melting Point:** NE  
**pH:** 6.8 - 7.2 @ 70°F    **Density:** 0.99 g/cm<sup>3</sup> @ 68°F (conc.) (H<sub>2</sub>O = 1.0)

### SECTION 10. STABILITY AND REACTIVITY

#### REACTIVITY

**Stability:** Indefinite when used according to label directions.

**Conditions to Avoid:** Avoid excess heat (temperatures above 130°F), open flame, sparks and heated 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 1 hr.

**Skin:** Prolonged exposure may produce slight skin irritation. Produced no irritation in rabbits. Primary skin irritation index = 0. Acute dermal LD<sub>50</sub> > 2,000 mg/kg (rabbits). Product is not a dermal sensitizer when tested on guinea pigs.

**Ingestion:** Acute oral LD<sub>50</sub> = 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<sub>50</sub> > 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 the label.

### SECTION 13. DISPOSAL CONSIDERATION

Do not contaminate water, food or feed by disposal of container or waste. Dispose of container and waste 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 full, contact your local solid waste agency 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:** None required

Product in unopened original packaging is compliant with all regulations for ground shipment within the U.S. WMG disclaims any liability for claims or damages that may result from shipment by other means. Packages offered or intended for other modes of transportation are subject to additional requirements. Consult an appropriately trained shipping professional before offering for shipment.

### 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:

Immediate (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 Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and/or 40 CFR Part 372:

Piperonyl Butoxide, technical (CAS #51-03-6)

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 SYSTEM

HEALTH - 1    FLAMMABILITY - 2    REACTIVITY - 1

KEY:	4 = Severe
	3 = High
	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. **For automatic MSDS updates, register at [www.wmmg.com](http://www.wmmg.com).**

Questions concerning the safe handling of the product should be referred to the Whitmire Micro-Gen Customer Service Department at 800-777-8570.

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 hr)



**WHITMIRE MICRO-GEN**  
RESEARCH LABORATORIES, INC.

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