

M A T E R I A L S A F E T Y D A T A S H E E T

CLEAR ZONE® Double Impact 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® Double Impact Farm Fly Spray
EPA Reg. No.: 499-320
Product Code(s): 09-3007 (12 x 20 oz)
EPA Signal Word: CAUTION
Distributed by: Whitmire Micro-Gen Research Laboratories, Inc.
 3568 Tree Court Industrial Blvd.
 St. Louis MO 63122-6682

Note to Physician: Contains petroleum distillate – vomiting may cause aspiration pneumonia.

Medical Conditions Generally Aggravated by Exposure: None known

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

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPOSITION INFORMATION

ACTIVE INGREDIENTS (2.5%)	%	CAS NO.
Pyrethrins	0.25	8003-34-7
Permethrin	0.25	52645-53-1
Piperonyl Butoxide, Technical	2.00	51-03-6

OTHER INGREDIENTS* (97.5%)

Petroleum Distillate	> 10.0	64742-47-8
1,1-Difluoroethane	proprietary	75-37-6
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 ³	5 mg/m ³
Permethrin*	NE	NE	NE	NE
Piperonyl Butoxide, Technical	NE	NE	NE	NE
Petroleum Distillate*	NE	500 ppm	NE	NE
1,1-Difluoroethane	NE	NE	NE	1,000 ppm
Dimethyl Ether	NE	NE	NE	1,000 ppm

* TWA recommended by ingredient suppliers: Permethrin = 10 mg/m³, Petroleum Distillate = 166 ppm

SECTION 3. HAZARDS IDENTIFICATION

NOTES TO PHYSICIAN

Contains petroleum distillate – vomiting may cause aspiration pneumonia.

SIGNS/SYMPTOMS OF EXPOSURE

Harmful if swallowed, inhaled 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: Skin **Secondary:** Inhalation **Tertiary:** Ingestion

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition in open flame may result in carbon monoxide, carbon dioxide, chlorine, hydrogen chloride or other toxic gases.

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

Contents under pressure. Exposure to temperatures above 130°F may cause bursting. Vapors are heavier than air and may travel along the ground to distant ignition sources.

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.

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.

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.

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.

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. Vapors are heavier than air and may travel along the ground to distant ignition sources.

IN CASE OF FIRE

Extinguisher Media: CO₂, 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 395 lbs of this product (approx. 315 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, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapor. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

OTHER PRECAUTIONS

Remove all pets and birds prior to treatment. Cover fish tanks or remove before spraying. Do not remain in treated area and ventilate the area after treatment is completed. Do not apply this product around electrical equipment due to the possibility of shock hazard. Do not spray on plastic, painted or varnished surfaces or directly into any electronic equipment such as radios, televisions, computers, etc.

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.

STORAGE

Do not contaminate water, food or feed. Store in a cool, dry area away from heat or open flame and inaccessible to children.

MATERIAL SAFETY DATA SHEET

CLEAR ZONE® Double Impact Farm Fly Spray

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: Open and ventilate treated areas before reoccupying.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, yellow, pressurized liquid
Solubility in Water: Negligible
Viscosity: 2.43 cps @ 71°F (conc.)
Boiling Point: NE
pH: 6.18 @ 72°F

Odor: Typical of petroleum distillates
Vapor Pressure: NE
Vapor Density: NE
Freezing/Melting Point: NE
Density: 0.8104 g/cm³ @ 68°F (conc.) (H₂O = 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): Strong acids and alkaline materials

Hazardous Polymerization: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition in open flame may result in carbon monoxide, carbon dioxide, chlorine, hydrogen chloride or other toxic gases.

SECTION 11. TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY

Primary: Skin **Secondary:** Inhalation **Tertiary:** Ingestion

ACUTE

Eyes: Produced conjunctival irritation in rabbits reversible in 4 days. No corneal opacity or iritis was observed.

Skin: Prolonged exposure may produce slight skin irritation. Primary skin irritation index = 0.29. Acute dermal LD₅₀ > 2,000 mg/kg (rabbits). Product is not a dermal sensitizer when tested on guinea pigs.

Ingestion: Acute oral LD₅₀ > 2,000 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 LC₅₀ > 4.35 mg/L/4 hr (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

SHIPMENT BY WATER (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: None required

SHIPMENT BY AIR (ICAO/IATA CLASSIFICATION)

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

Package Marking: Aerosols, Flammable, 2.1, UN 1950, LTD. QTY.

Package Labeling: Flammable Gas (Class 2)

Certified Packaging: None required

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

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. Consult appropriately trained shipping professional before offering for shipment by water or air.

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) 2.0% 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

HMIS HAZARD RATING INFORMATION

HEALTH - 1 FLAMMABILITY - 3 REACTIVITY - 1

HMIS HAZARD RATING INFORMATION

HEALTH - 1 FLAMMABILITY - 3 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.**

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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