

MATERIAL SAFETY DATA SHEET

WHITMIRE MICRO-GEN
RESEARCH LABORATORIES, INC.
3568 TREE COURT IND. BLVD.
ST. LOUIS, MO 63122
EFFECTIVE DATE: AUGUST 3, 1999

Prescription Treatment® brand

(800) 777-8570 (8:00 A.M. to 4:30 P.M. CST)

AERO-CIDE®

EMERGENCY PHONE NUMBERS:

Contact Insecticide

MEDICAL: (800) 225-3320 PROSAR

Formula 1

TRANSPORTATION: (800) 424-9300 CHEMTREC

EPA REG. NO.: 499-415

SECTION 1: HAZARDOUS INGREDIENTS

Active Ingredients:	ACGIH TLV/TWA	ACGIH STEL	OSHA PEL	OTHER
Pyrethrins: 1.0% (CAS #8003-34-7)	5mg/m ³	10mg/m ³	NE	
Piperonyl Butoxide, Technical: 4.0% (CAS #51-03-6)	NE	NE	NE	
N-octyl Bicycloheptene Dicarboximide: 4.0% (CAS #113-48-4)	NE	NE	NE	
D-Trans Allethrin: 1.0% (CAS #28057-48-9)	5mg/m ³	NE	NE	
Solvents & Propellants: 90.0%				
1,1,1,2-Tetrafluoroethane (CAS #811-97-2)	NE	NE	1000ppm	
Aromatic Range Petroleum (CAS #68920-06-9)	NA	NE	NE	

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

SECTION 2: PHYSICAL DATA

Boiling Point: NA
Specific Gravity (H₂O = 1): 0.9426
Vapor Pressure in Aerosol Can: 96 psig @ 77°F
Percent Volatile: ~90%
Vapor Density: NA
Evaporation Rate: NA
Solubility in Water: Slight
Appearance and Odor: Sprays as a strong, dry mist with characteristic Pyrethrin odor.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flashpoint: None up to 20°F (ASTM Designation D-1310-SST; Tag Open Cup) (Aerosol Concentrate)
Flammable Limits: NA
NFPA 30B Flammability: Level I Aerosol
Extinguishing Media: CO₂; Dry Chemical; Foam
Special Firefighting Procedures: None required.
Unusual Fire and Explosion Hazards: Contents under pressure. Exposure to temperatures above 130°F may cause bursting.

SECTION 4: HEALTH HAZARD DATA

Threshold Limit Value: NE

Routes of Entry:

Inhalation?	Skin?	Ingestion?
Secondary	Primary	Tertiary

Health Hazard (Acute and Chronic) - Signs and Symptoms of Exposure:

Eye: May cause eye irritation. Produced conjunctival irritation reversible in 24 hrs in albino rabbits. No corneal opacity or iritis was observed.

Skin: Prolonged exposure may cause skin irritation. Acute dermal LD₅₀ > 2.0g/kg. Primary skin index = 2.38 (albino rabbits).

Ingestion & Inhalation: Unlikely due to the product being pressurized and producing particles large enough not to be respirable. Oral LD₅₀ > 5.0g/kg (albino rats). A few cases of extrinsic asthma from pyrethrin mixtures have been reported. Prolonged exposure may cause drying of nose and throat. Acute inhalation LC₅₀ > 5.9mg/l.

Carcinogenicity:

NTP?	IARC Monograph?	OSHA Regulated?
No	No	No

Emergency and First Aid Procedures:

If Swallowed: Call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by touching the back of throat with finger, or, if available, by administering syrup of ipecac. If person is unconscious, do not give anything by mouth and do not induce vomiting.

If Inhaled: Remove patient to fresh air. Apply artificial respiration if indicated.

If on Skin: Wash with plenty of soap and water. Get medical attention.

If in Eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.

Medical Conditions Generally Aggravated by Exposure: None known.

SECTION 5: REACTIVITY DATA

Stability: Indefinite when used according to label directions.

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

Hazardous Decomposition Products: Thermal decomposition in open flame may result in carbon dioxide and carbon monoxide.

Hazardous Polymerization: Will not occur.

SECTION 6: SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: If container begins to leak (through puncture, etc.), allow to discharge completely in well ventilated area, then dispose in safe place. In case of spillage on skin, wash thoroughly with soap and water.

Emergency Telephone Number of Chemtrec: (800) 424-9300
(for transportation spills)

Waste Disposal Method: Do not contaminate water, food or feed by disposal. *Pesticide Disposal:* Waste resulting from use of this product may be disposed of on site or at an approved waste disposal facility. *Container Disposal:* This container may be recycled in the few but growing number of communities where steel aerosol can recycling is available. Before offering for recycling, empty the can by using the product according to the label (DO NOT PUNCTURE!). If recycling is unavailable, wrap the container and discard in the trash.

In case of spillage, this product is subject to reporting requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

SECTION 7: SPECIAL PROTECTION INFORMATION

Respiratory Protection: During any general volumetric treatment, wear a pesticide respirator jointly approved by the Mining Enforcement and Safety Administration (formerly the US Bureau of Mines) and by the National Institute of Occupational Safety and Health under provisions of 30 CFR Part 11.

Ventilation:

Local Exhaust: None required. **Mechanical:** Provide adequate ventilation of treatment area.

Special: None required.

Other: None required.

Protective Gloves: None required - avoid contact with skin.

Eye Protection: None required - avoid contact with eyes.

Other Protective Equipment: None required.

SECTION 8: SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: *Hazards to Humans and Domestic Animals:* CAUTION: Harmful if swallowed or absorbed through skin. Do not remain in treated area and ventilate the treated area after treatment is completed. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling. Avoid breathing of vapor. Avoid contact with skin, eyes or clothing. Do not contaminate water, food or foodstuffs. Remove all pets and birds. Cover fish tanks or remove before treating. *Food Areas of Food Handling Establishments:* Foods should be removed or covered during treatment. All food processing surfaces and equipment should be covered during treatment or thoroughly washed with an effective cleaning compound followed by a potable water rinse before using. When using this product, apply only when plant is not in operation. *Environmental Hazards:* This pesticide is highly toxic to fish. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift from treated areas may be hazardous to organisms in adjacent aquatic sites. *Physical or Chemical Hazards:* Contents under pressure. Keep away from heat, sparks or open flame. 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.

SECTION 9: HEALTH RATING INFORMATION (NFPA)

Health - 1 Flammability - 1 Reactivity - 1

SECTION 10: SARA TITLE III/SEC. 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

CAS#	Chemical Name	% by weight
51-3-6	Piperonyl butoxide	4.0
28057-48-9	d-trans-Allethrin	1.0

SECTION 11: DOT SHIPPING INFORMATION

1 lb. can:

Proper Shipping Name: Compressed Gas, N.O.S. (1,1,1,2-Tetrafluoroethane (134a))
DOT-E 10232

Hazard Class: 2.2, Non-Flammable Gas, UN 1956
Labeled/Placarded Non-Flammable Gas

15 lb. cylinder:

Proper Shipping Name: Compressed Gas, N.O.S. (1,1,1,2-Tetrafluoroethane (134a))

Hazard Class: 2.2, Non-Flammable Gas, UN 1956
Labeled/Placarded Non-Flammable Gas

NA - Not Applicable

NE - Not Established

PEL - Permissible Exposure Limit

ACL - Acceptable Ceiling Level

MPC - Maximum Peak Concentration

Product Code: 02-0526 (1 lb.)

02-0525 (15 lb.)

Prepared by: Dana M. Thomas

499-415

PTb **AERO-CIDE** Contact Insecticide Formula 1

Changed product code for 1 lb. size from 02-0564-2 to 02-0526 per 1/98 Price List, subsequently changing the MSDS P/N to 19-0525-A; 2/26/98 - dmt

10/28/98 - Replaced Business Center's phone number with that of PROSAR's new Medical Emergency number (800) 225-3320 per J. Berger's memo of 9/10/98; consequently changed MSDS part number to 19-0744; dmt.

8/3/99 - Changed DOT shipping information in Section 11 based on information Larry Sharp and Melodie Hutson obtained. The new classification of Compressed Gas, n.o.s. is due to the fact that this product is not being used as a refrigerant gas - it is the primary hazard, but not being used for that purpose (per Dennis Best @ SCJ); consequently changed MSDS part number to 19-0776; dmt.