

MATERIAL SAFETY DATA SHEET

WHITMIRE MICRO-GEN
RESEARCH LABORATORIES, INC.
3568 TREE COURT IND. BLVD.
ST. LOUIS, MO 63122
EFFECTIVE DATE: MAY 25, 2000

PRESCRIPTION TREATMENT® brand

PERMA-DUST®

Pressurized Boric Acid Dust

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

EMERGENCY PHONE NUMBERS:

MEDICAL: (800) 225-3320 PROSAR

TRANSPORTATION: (800) 424-9300 CHEMTREC

EPA REG. NO.: 499-384

SECTION 1: HAZARDOUS INGREDIENTS

Active Ingredients:	ACGIH TLV/TWA	ACGIH STEL	OSHA PEL	OTHER
Boric Acid: 35.5% (CAS #10043-35-3)	NE	NE	NE	
Inert Ingredients: 64.5%				
Isoparaffinic Petroleum Solvent: (CAS #64742-48-9)	NE	NE	500 ppm	
1,1,2-Tetrafluoroethane: (CAS #811-97-2)	NE	NE	NE	AEL 1000 ppm 8 & 12 hr. TWA Est. by DuPont
1,1-Difluoroethane: (CAS #75-37-6)	NE	NE	NE	AEL 1000 ppm 8 hr. TWA Est. by DuPont
Silicon Dioxide: (CAS #112945-52-5)	10mg/m ³	NE	20 mppcf	
Isopropyl Alcohol: (CAS #67-63-0)	400 ppm	500 ppm	Ditto	ACGIH

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	Evaporation Rate: NA
Specific Gravity (H₂O = 1): 8.30 lbs/gal @ 20°C	Solubility in Water: Powder residue (Boric Acid); 4.72% @ 20°C
Vapor Pressure in Aerosol Container: 70 psig @ 70°F	Appearance and Odor: Sprays as a dry powder with a slight solvent odor.
Percent Volatile: 64.19%	

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flashpoint: >18" (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 irritation. Produced conjunctival irritation in rabbits at 1 hr. only. No corneal opacity or iritis was observed during the 7 day testing period.

Skin: Prolonged exposure may cause skin irritation. Primary skin irritation index = 1.83 (rabbits). Acute dermal toxicity LD₅₀ > 2,000 mg/kg (rabbits). Product does not appear to be a dermal sensitizer to albino guinea pigs.

Ingestion & Inhalation: Unlikely due to the product being pressurized and producing particles large enough not to be respirable. Oral effects are nausea, vomiting and diarrhea. Acute oral toxicity LD₅₀ > 5,000 mg/kg (rats).

Carcinogenicity:

NTP?	IARC Monograph?	OSHA Regulated?
No	No	No

Emergency and First Aid Procedures:

If Swallowed: Call a doctor or get medical attention. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Avoid alcohol.

If in Eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

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

If Inhaled: Remove victim to fresh air. If not breathing, apply artificial respiration, preferably mouth-to-mouth. Get medical attention.

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.

Incompatibility (Materials to Avoid): None.

Hazardous Decomposition Products: Thermal decomposition in open flame will result in halogen acids.

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 it to discharge completely in well ventilated area, then dispose of in safe place. In case of spillage on skin, wash thoroughly with plenty of 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:* Wastes 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 not available, wrap the container and discard in 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: None required if applied according to label directions. During prolonged exposure or when exposure guidelines exceeded, use an approved pesticide dust respirator.

Ventilation:

Local Exhaust: None required. **Mechanical:** None required.

Special: None required. **Other:** Provide adequate ventilation of treatment area.

Protective Gloves: None required - avoid contact with skin.

Eye Protection: Not mandatory - goggles or face shield suggested - avoid eye contact.

Other Protective Equipment: None required.

SECTION 8: SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: *Hazards to Humans & Domestic Animals:* CAUTION - Harmful if swallowed or absorbed through the skin. Causes eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. *Environmental Hazards:* This product is toxic to fish, birds and other wildlife. Do not apply directly to water. Apply this product only as specified on the label. Do not contaminate water by cleaning of equipment or disposal of wastes. *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. For best results, use in upright position only. *Storage:* Do not contaminate water, food or feed by storage. Store in a cool dry area away from heat or open flame and inaccessible to children.

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
	This product contains no Section 313 chemicals.	

SECTION 11: DOT SHIPPING INFORMATION

Proper Shipping Name: Consumer Commodity

Hazard Class: ORM-D

NA - Not Applicable

NE - Not Established

PEL - Permissible Exposure Limit

ACL - Acceptable Ceiling Level

MPC - Maximum Peak Concentration

Product Code: 02-0249

Prepared by: Dana M. Thomas

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