

# MATERIAL SAFETY DATA SHEET

WHITMIRE MICRO-GEN  
RESEARCH LABORATORIES, INC.  
3568 TREE COURT IND. BLVD.  
ST. LOUIS, MO 63122  
EFFECTIVE DATE: OCTOBER 12, 1998

Prescription Treatment<sup>®</sup> brand  
**ORTHENE\***  
Crack & Crevice<sup>®</sup> Pressurized Residual  
Formula 1

(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.: 499-373

## SECTION 1: HAZARDOUS INGREDIENTS

Active Ingredients:	ACGIH TLV/TWA	ACGIH STEL	OSHA PEL
Acephate: 1.0% (CAS #30560-19-1)	NE	NE	NE
Solvents & Propellants: 99.0% Isoparaffinic Petroleum Solvent (CAS #64742-47-8)	NE	NE	300ppm
Acetone (CAS #67-64-1)	750ppm	1,000ppm	750ppm
Dimethyl Ether (CAS #115-10-6)	1,000ppm (estimated)	NE	NE
Carbon Dioxide (CAS #124-38-9)	5,000ppm	30,000ppm	5,000ppm

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: (H <sub>2</sub> O = 1): ~0.82	Solubility in Water: Insoluble
Vapor Pressure: 65 psig	Appearance and Odor: Sprays as coarse spray with characteristic acephate odor.
Percent Volatile: NA	
Vapor Density: NA	

## SECTION 3: FIRE AND EXPLOSION HAZARD DATA

NFPA 30B Flammability: Level 3 Aerosol  
Flammable Limits: NA LEL: NE UEL: NE  
Extinguishing Media: CO<sub>2</sub>; 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:** Product produced slight conjunctival irritation reversible in 48 hours in rabbits.  
**Skin:** Prolonged exposure may cause skin irritation. Excessive exposure may produce signs of cholinesterase depression (see below). \*Dermal LD<sub>50</sub> > 2,000mg/kg (rabbits). \*Produced no irritation to rabbits. Not a dermal sensitizer to guinea pigs.  
**Ingestion & Inhalation:** Unlikely due to the product being pressurized and producing particles large enough not to be respirable. Excessive exposure may produce signs of cholinesterase depression. \*Oral LD<sub>50</sub> = 5,190mg/kg (rats). \*Inhalation LC<sub>50</sub> > 5.7mg/l (rats).  
**Signs of Cholinesterase Depression:** Discomfort or tightness in chest, difficulty in breathing. Stomach pains, nausea, vomiting, diarrhea, cramps, headache, nervousness, weakness, nonactive pinpoint pupils or blurred vision. Symptoms may not occur until 1-8 hours after exposure.

\*Test article identical to Prescription Treatment<sup>®</sup> brand Orthene Crack & Crevice<sup>®</sup> Pressurized Residual Formula 1 with the addition of 0.03% prallethrin and 0.24% MGK 264.

Carcinogenicity:

NTP?	IARC Monograph?	OSHA Regulated?
No	No	No

Emergency and First Aid Procedures:

**If Swallowed:** Call a physician or poison control center immediately. Gastric lavage is indicated. Do not induce vomiting. Vomiting may cause aspiration pneumonia. Do not give anything by mouth to an unconscious person. Avoid alcohol.

**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.

**Note to Physician:** If symptoms of cholinesterase inhibition are present, atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine.

**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):** May react with strong acids or strong oxidizing agents.

**Hazardous Decomposition Products:** Thermal decomposition in open flame will 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 it to discharge completely in a well ventilated area, then dispose of in a safe place. In case of spillage on skin, wash thoroughly with soap and water. Consult physician immediately if illness occurs.

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

**Waste Disposal Method:** *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 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:** None required if used according to label directions. Avoid breathing spray mist. If exposure guidelines are exceeded, use an approved air purifying respirator.

**Ventilation:**

**Local Exhaust:** May be necessary.

**Mechanical:** Provide adequate ventilation of treatment area.

**Special:** None required. **Other:** None required.

**Protective Gloves:** Impervious plastic gloves recommended.

**Eye Protection:** Safety glasses recommended.

**Other Protective Equipment:** None required.

## SECTION 8: SPECIAL PRECAUTIONS

**Precautions to be taken in handling and storage:** Keep out of reach of children. Store in a cool dry area away from heat or open flame and inaccessible to children. Contents under pressure. Do not puncture or incinerate. Exposure to temperatures above 130°F may cause bursting. Do not use this product in or on 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, telephones, etc.

**Other Precautions: Hazards to Humans and Domestic Animals:** CAUTION - Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling. Avoid contamination of food, utensils and food preparation areas. Should illness occur, get prompt medical aid. To physician - atropine sulfate is antidotal. **Environmental Hazards:** This product is toxic to fish and birds. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product as specified on the label.

## SECTION 9: HEALTH RATING INFORMATION (NFPA)

Health - 1 Flammability - 2 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
30560-19-1	Acephate	1.0%

## 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

\*Orthene - Reg. TM of Monsanto Company for Acephate insecticide.

**Product Code:** 02-0289-1  
**Prepared by:** Dana M. Thomas