

MATERIAL SAFETY DATA SHEET

PRESCRIPTION TREATMENT® brand MICROCARE® CS Controlled Release Pyrethrum

EMERGENCY PHONE NUMBERS:

MEDICAL: 800-225-3320 (PROSAR)

TRANSPORTATION: 800-424-9300 (CHEMTREC)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: PRESCRIPTION TREATMENT® brand MICROCARE® CS Controlled Release Pyrethrum
EPA Reg. No.: 499-233
Product Code(s): 02-0170-2 (6 x 2 qt.)
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 (7.0%)	%	CAS NO.
Pyrethrins	1.1%	8003-34-7
Piperonyl Butoxide, Technical	2.2%	51-03-6
N-octyl Bicycloheptene Dicarboximide	3.7%	113-48-4
OTHER INGREDIENTS* (93.0%)	%	CAS NO.
Isoparaffinic Hydrocarbon	< 10.0%	64742-48-9

* 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
Piperonyl Butoxide, Technical	NE	NE	NE	NE
N-octyl Bicycloheptene Dicarboximide	NE	NE	NE	NE
Isoparaffinic Hydrocarbon	300 ppm	NE	NE	NE

SECTION 3. HAZARDS IDENTIFICATION

ROUTES OF ENTRY

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

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition in open flame will result in possible toxic substances.

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

None known.

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.

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

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

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

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): None

Explosibility Limits in Air (% by volume):

Lower (LEL) = NA Upper (UEL) = NA

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

None known.

IN CASE OF FIRE

Extinguisher Media: CO₂, Dry Chemical, Foam, H₂O

Special Fire Fighting Procedures: None required - water based formulation.

SECTION 6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR LEAK

If container begins to leak (through puncture, etc.), eliminate all ignition sources and use absorbent material to collect and contain for salvage or disposal. Ventilate area.

This product contains the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) listed chemical *Pyrethrin* which has a reportable quantity (RQ) of 1 lb. A release of more than 91 lbs. (approximately 11 gallons) of this product 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 as a minimum.

Skin: Wear long sleeved shirt, long pants, shoes plus socks and waterproof 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: If working in enclosed spaces, wear a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

WASTE DISPOSAL METHOD

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. Do not contaminate water, food or feed by storage or disposal of wastes.

SECTION 7. HANDLING AND STORAGE

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Keep out of reach of children. CAUTION – Harmful if absorbed through skin.

Causes moderate eye damage. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

USER SAFETY RECOMMENDATIONS

Users Should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

PHYSICAL OR CHEMICAL HAZARDS

Do not spray where electrical short circuits might result, such as wall outlets, conduits, motors, switches, etc. Do not spray directly into any electronic equipment, such as radios, televisions, computers, telephones, etc.

STORAGE

Do not contaminate water, food or feed by storage. Keep container tightly closed. Store in a cool, dry area inaccessible to children. Do not store below 32° F. If exposed to temperatures below 32° F, thaw completely and mix well before using.

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Respiratory Protection: None required when used according to label directions. Avoid breathing spray mist.

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Protective Gloves: Applicators and other handlers must wear waterproof gloves. (Good practice requires that gross amount of any chemical be removed from the skin as soon as practical, especially before eating or smoking.)

Eye Protection: Use proper protection – safety glasses as a minimum.

Other Protective Equipment: Applicators and other handlers must wear long sleeved shirt, long pants and shoes plus socks.

VENTILATION

Local Exhaust: None required.

Mechanical: None required.

Special: None required.

Other: Ventilate area after treatment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Beige-yellow liquid.

Solubility in Water: Disperses

Viscosity: NE

Boiling Point: NE

pH: 7.0 (1% in H₂O)

Odor: Characteristic Pyrethrin odor.

Vapor Pressure: NA

Vapor Density: NE

Freezing/Melting Point: NE

Density: 0.998 g/ml @ 20° C

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY

Stability: Stable

Conditions to Avoid: None known.

Incompatibility (Material to Avoid): None known.

Hazardous Polymerization: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition in open flame will result in possible toxic substances.

SECTION 11. TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY

Primary: Skin

Secondary: Ingestion

Tertiary: Inhalation

ACUTE

Eyes: Product causes moderate conjunctival irritation in rabbits clearing in less than 7 days. Also produces corneal opacity clearing in less than 2 days.

Skin: Product is considered slightly irritating to skin, but is not a sensitizer to guinea pigs. Acute dermal toxicity - LD₅₀ > 2,000 mg/kg (rabbits).

Ingestion: Acute oral toxicity - LD₅₀ > 5,000 mg/kg (rats).

Inhalation: Encapsulation greatly reduces the toxicity and irritation potential of the active ingredients. Acute inhalation toxicity - LC₅₀ > 5.0 mg/L. A few cases of extrinsic asthma have been reported for pyrethrum.

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).

In a recent study, marginally higher incidences of benign thyroid, parathyroid, ovary, and liver tumors were observed in rats and in lungs of mice following lifetime high dose exposures to pyrethrum. Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these observations is questionable and under review. The doses at which tumors were observed for both pyrethrum and PBO greatly exceeded potential human exposure from labeled uses.

GENOTOXICITY

Pyrethrum was not found to be genotoxic and did not damage DNA in any study conducted (Ames mutagenicity assay, chromosome aberration in Chinese hamster ovaries (CHO) and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells).

PBO was not genotoxic in several tests including the Ames mutagenicity assay, chromosome aberration in Chinese hamster ovaries (CHO) and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells.

TERATOLOGY / REPRODUCTIVE EFFECTS

There were no birth defects or adverse effects on reproductive parameters in tests with rats or rabbits for either Pyrethrum or PBO. They are not considered to be teratogenic.

SECTION 12. ECOLOGICAL INFORMATION

This pesticide is toxic to fish and birds. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Keep out of lakes, streams and ponds. Do not contaminate water when disposing of equipment washwaters.

SECTION 13. DISPOSAL CONSIDERATION

Do not contaminate water, food or feed by disposal. Dispose of container and wastes in accordance with all Federal, state and local regulations.

Container Disposal: Empty container by using the product according to the label directions. Do not reuse this container! Place empty container in trash or offer for recycling if available. If container is partly filled, call your local solid waste agency or call 1-800-CLEANUP for disposal instructions. NEVER PLACE UNUSED PRODUCT DOWN ANY INDOOR OR OUTDOOR DRAIN!

Waste Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. NEVER PLACE WASTES DOWN ANY INDOOR OR OUTDOOR DRAIN OR SEWER.

SECTION 14. TRANSPORT INFORMATION

SHIPMENT BY GROUND, WATER OR AIR (DOT, IMDG & IATA CLASSIFICATION)

Proper Shipping Description: Liquid Insecticide (Not Regulated)

Package Marking: None required

Package Labeling: None required

Certified Packaging: Not required

Other Requirements or Instructions: None required

SECTION 15. REGULATORY INFORMATION

CERCLA

This product contains the CERCLA listed chemical *Pyrethrin* 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:

Acute Health 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 (CAS #51-03-6) 2.2% 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 - 0 REACTIVITY - 0

HMIS HAZARD RATING INFORMATION

HEALTH - 1 FLAMMABILITY - 0 REACTIVITY - 0

KEY: 4 = Severe
3 = Serious
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.

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 hrs)



WHITMIRE MICRO-GEN
RESEARCH LABORATORIES, INC.

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