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

**PRESCRIPTION TREATMENT® brand MICROCARE® CS Controlled Release Pyrethrum**

**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**

**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**

<table>
<thead>
<tr>
<th>Material</th>
<th>OSHA PEL STEL</th>
<th>ACGIH TLV STEL</th>
<th>OSHA PEL TWA</th>
<th>ACGIH TLV TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethrins</td>
<td>NE</td>
<td>10 mg/m³</td>
<td>5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Piperonyl Butoxide, Technical</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>N-octyl Bicycloheptene Dicarboximide</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td></td>
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<tr>
<td>Isoparaffinic Hydrocarbon</td>
<td>300 ppm</td>
<td>NE</td>
<td>NE</td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 3. HAZARDS IDENTIFICATION**

**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
- Explodibility Limits in Air (% by volume): Lower (LEL) = NA Upper (UEL) = NA

**UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS**
None known.

**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)

**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**

**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 or disposal of wastes.

**SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**
- Respiratory Protection: None required when used according to label directions. Avoid breathing spray mist.
**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Beige-yellow liquid.  
**Odor:** Characteristic Pyrethrin odor.  
**Solubility in Water:** Disperses  
**Vapor Pressure:** NA  
**Vapor Density:** NE  
**Boiling Point:** NE  
**Freezing/Melting Point:** NE  
**pH:** 7.0 (1% in H2O)  
**Density:** 0.998 g/ml @ 20° C

**SECTION 10. STABILITY AND REACTIVITY**

**Stability:** Stable  
**Conditions to Avoid:** None known  
**Incompatibility (Material to Avoid):** None known  
**Hazardous Polymerization:** Will not occur.

**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, chromosomal 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, chromosomal 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**

**CERCLA**  
This product contains the CERCLA listed chemical Pyrethrin which has a reportable quantity (RO) 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 I 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**

**NEPA 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

**Questions concerning the safe handling of the product should be referred to the Whitmire Micro-Gen Customer Service Department at 800-777-8570.**