

# MATERIAL SAFETY DATA SHEET

WHITMIRE MICRO-GEN  
RESEARCH LABORATORIES, INC.  
3568 TREE COURT IND. BLVD.  
ST. LOUIS, MO 63122-6682  
EFFECTIVE DATE: NOVEMBER 19, 1998

Prescription Treatment® Brand  
**DuraGuard™ ME**  
Microencapsulated Insecticide

(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.: 499-367

## SECTION 1: HAZARDOUS INGREDIENTS

### Active Ingredient:

Chlorpyrifos 20%: CAS #2921-88-2  
[O,O-Diethyl O-(3,5,6-Trichloro-2-Pyridyl) Phosphorothioate

Inert Ingredients: 80%

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

ACGIH TLV/TWA	ACGIH STEL	OSHA PEL
0.2mg/m <sup>3</sup>	NE	NE

## SECTION 2: PHYSICAL DATA

Boiling Point: NA

Specific Gravity (H<sub>2</sub>O = 1): 0.97 @ 20°C

Vapor Pressure: NA

Percent Volatile: ~75%

Vapor Density: NA

Evaporation Rate: ~1

Solubility in Water: Disperses

Appearance and Odor: Beige-yellow liquid, characteristic Chlorpyrifos odor.

pH: 7.5-8.5

## SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flashpoint: None (ASTM Designation D-13-10-SST) Tag Open Cup

Flammable Limits: NA

Extinguishing Media: CO<sub>2</sub>; Dry Chemical; Foam; H<sub>2</sub>O

Special Firefighting Procedures: None - water based formulation

Unusual Fire and Explosion Hazards: None known.

## SECTION 4: HEALTH HAZARD DATA

Threshold Limit Value: NE

Routes of Entry:

Inhalation?  
Tertiary

Skin?  
Secondary

Ingestion?  
Primary

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

**Eye:** Product produces mild, reversible eye irritation in albino rabbits.

**Skin:** Product is not a skin irritant for albino rabbits. Primary skin irritation index = 0.00. Acute dermal toxicity (rabbits) LD<sub>50</sub> > 2,000 mg/kg. Not a primary skin irritant, skin sensitizer or fatiguing agent in guinea pigs.

**Ingestion & Inhalation:** Encapsulation greatly reduces the toxicity and irritation potential of the active ingredients. When sprayed, produces particle size larger than considered respirable. Excessive exposure may produce signs of cholinesterase depression. Acute oral toxicity (rats) LD<sub>50</sub> > 5,000 mg/kg.

**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.

Carcinogenicity:

NTP?  
No

IARC Monograph?  
No

OSHA Regulated?  
No

Emergency and First Aid Procedures:

**If Swallowed:** Drink one or two glasses of water and induce vomiting by touching back of throat with finger or blunt object. Do not induce vomiting or give anything by mouth to an unconscious person.

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

**If in Eyes:** Wash thoroughly with water for at least 15 minutes. Call a physician if symptoms occur.

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

**Medical Conditions Generally Aggravated by Exposure:** None known.

## SECTION 5: REACTIVITY DATA

Stability: Stable under normal use conditions.

Hazardous Decomposition Products: NA

Hazardous Polymerization: Will not occur.

## SECTION 6: SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled:** Contain and absorb spills with inert material such as sand, calcium carbonate, clay or sawdust. Do not contaminate waterways. Dispose absorbent in accordance with Federal and local regulations.

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

## SECTION 6: SPILL OR LEAK PROCEDURES (Cont'd.)

**Waste Disposal Method:** *Pesticide Disposal:* Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. *Container Disposal:* Triple rinse container, then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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. Avoid breathing spray mist.

**Ventilation:**

**Local Exhaust:** None required.

**Mechanical:** None required.

**Special:** None required.

**Other:** Ventilate area after treatment.

**Protective Gloves:** Applicators and other handlers, and early reentry require waterproof gloves.

**Eye Protection:** None required.

**Other Protective Equipment:** Applicators and other handlers must also wear long-sleeved shirt and long pants and shoes plus socks. Early reentry calls for coveralls and shoes plus socks.

## SECTION 8: SPECIAL PRECAUTIONS

**Precautions to be taken in handling and storage:** Keep out of reach of children. *Hazards to Humans and Domestic Animals:* CAUTION - Harmful if inhaled or absorbed through skin. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Do not apply to humans, their clothing or bedding. Do not allow children or pets to contact treated surfaces until spray has dried. Do not contaminate food or use on household pets. Cover fish tanks prior to application. Avoid contamination of food, feedstuffs, or water supply. Do not contaminate food preparation surfaces, kitchen utensils, dishes or feed storage containers. All food contact surfaces and cooking utensils should be covered during treatment or thoroughly cleaned before using. *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. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergents and hot water. Keep and wash PPE separately from other laundry. *Environmental Hazards:* This pesticide is toxic to birds, fish and aquatic invertebrates. Birds feeding in treated areas may be killed. Clean up spilled product to reduce exposure to wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. *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:* Store in original container only, preferable in a locked storage area. Do not store in a manner where cross contamination with other pesticides, fertilizer, food or feed could occur.

## SECTION 9: HEALTH RATING INFORMATION (NFPA)

Health - 1      Flammability - 0      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:** RQ Environmentally Hazardous Substance, Liquid, NOS (Chlorpyrifos)

**Hazard Class:** 9

**Packing Group:** III

**UN I.D. No.:** UN 3082

NA - Not Applicable  
NE - Not Established  
PEL - Permissible Exposure Limit  
ACL - Acceptable Ceiling Level  
MPC - Maximum Peak Concentration

**Product Code:** 09-1325-2 (1 qt.)  
09-1325 (1 gal.)  
09-1325-3 (15 gal.)  
**Prepared by:** Dana M. Thomas

