

# 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 DuraGuard® ME Microencapsulated Insecticide

### EMERGENCY PHONE NUMBERS:

**MEDICAL:** 800-225-3320 (Prosar)

**TRANSPORTATION:** 800-424-9300 (Chemtrec)

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Prescription Treatment® brand DuraGuard® ME Microencapsulated Insecticide  
**EPA Reg. No.:** 499-367  
**Product Code(s):** 02-1326 (4 x 1 gal)  
 02-1326-3 (1 x 15 gal)  
**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 (20.0%)	%	CAS NO.
Chlorpyrifos	20.0	2921-88-2
OTHER INGREDIENTS* (80.0%)		

\* 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
Chlorpyrifos	NE	0.2 mg/m <sup>3</sup>	NE	0.2 mg/m <sup>3</sup>

### SECTION 3. HAZARDS IDENTIFICATION

#### SIGNS/SYMPTOMS OF EXPOSURE

Encapsulation greatly reduces the toxicity and irritation potential of the active ingredient. Excessive exposure may produce signs of cholinesterase depression.

#### SIGNS/SYMPTOMS OF CHOLINESTERASE DEPRESSION

Symptoms include discomfort or tightness in chest, difficulty in breathing, stomach pains, vomiting, diarrhea, cramps, headache, nervousness, weakness, non-active pinpoint pupils or blurred vision. Symptoms may not occur until 1 - 12 hr after exposure. **NOTE:** when used according to label directions, this level will not be attained.

#### ROUTES OF ENTRY

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

#### HAZARDOUS DECOMPOSITION PRODUCTS

None known

#### 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:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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

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

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

**Note to Physician:** None

**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

**Flame Projection:** NA

**Explosibility Limits in Air (% by volume):**

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

**NFPA 30B Flammability:** NA

#### UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

None known

#### IN CASE OF FIRE

**Extinguisher Media:** Carbon Dioxide, Dry Chemical, Foam, Water

**Special Fire Fighting Procedures:** None required (product is water based).

### 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 *Chlorpyrifos* which has a reportable quantity (RQ) of 1 lb. A release of more than 5 lbs of this product (approx. 2.5 qt) 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 are recommended.

**Skin:** Coveralls over long-sleeved shirt and long pants; chemical-resistant gloves; chemical resistant apron when mixing or loading or exposed to the concentrate; chemical-resistant footwear plus socks; and chemical resistant headgear for overhead exposures. (Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.)

**Inhalation:** Use of a respirator may be appropriate when working with spills in enclosed or confined spaces, or when prolonged exposure to product vapor or spray mist may occur. When using a respirator, wear a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or HE filter. See 29 CFR 1910.134 for respiratory protection, training and testing requirements.

#### WASTE DISPOSAL METHOD

Do not contaminate water, food or feed by storage or disposal of wastes. 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. NEVER PLACE WASTES DOWN ANY INDOOR OR OUTDOOR DRAIN OR SEWER.

### SECTION 7. HANDLING AND STORAGE

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Keep out of reach of children. **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 enter or allow others to enter until sprays have dried.

#### 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. Store in original container only, preferably in a locked storage area. Do not store in a manner where cross contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, soak up spillage with absorbent material and dispose of in accordance with Pesticide Disposal instructions listed in Section 6.

### SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Respiratory Protection:** See "Other PPE Requirements" listed below.

**Protective Gloves:** Wear chemical-resistant gloves when handling and applying this product. (Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.)

**Eye Protection:** Use proper protection – safety glasses are recommended.

**Other Protective Equipment:** See "Other PPE Requirements" listed below.

#### OTHER PPE REQUIREMENTS

**Mixers and loaders using a mechanical transfer loading system must wear:** Long sleeved shirt and long pants; socks and shoes; chemical-resistant gloves; chemical resistant apron; and a NIOSH approved mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator any N, R, P or HE filter.

**All other mixers, loaders, applicators and handlers must wear:** Coveralls over long-sleeved shirt and long pants; chemical-resistant gloves; chemical resistant apron when mixing or loading or exposed to the concentrate; chemical resistant footwear plus socks; chemical-resistant headgear for overhead exposures; and a NIOSH-approved mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH approved respirator any N, R, P or HE filter.

**User Safety Requirements:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### 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.

#### AGRICULTURAL USE REQUIREMENTS

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hr.

# MATERIAL SAFETY DATA SHEET

## Prescription Treatment® brand DuraGuard® ME Microencapsulated Insecticide

**PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:** Coveralls over short sleeved shirt and short pants; chemical-resistant gloves made out of any waterproof material; chemical-resistant footwear plus socks; and chemical resistant headgear for overhead exposure. Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

### VENTILATION

**Local Exhaust:** None required  
**Mechanical:** None required  
**Special:** None required  
**Other:** Provide adequate ventilation

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Beige yellow liquid  
**Solubility in Water:** Disperses  
**Viscosity:** NE  
**Boiling Point:** 212°F  
**pH:** 7.5 - 8.5

**Odor:** Characteristic Chlorpyrifos odor  
**Vapor Pressure:** NE  
**Vapor Density:** NE  
**Freezing/Melting Point:** 32°F  
**Density:** 0.95 g/ml @ 68°F

### SECTION 10. STABILITY AND REACTIVITY

#### REACTIVITY

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

#### HAZARDOUS DECOMPOSITION PRODUCTS

None known

### SECTION 11. TOXICOLOGICAL INFORMATION

#### ROUTES OF ENTRY

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

#### ACUTE

**Eyes:** Product produces mild, reversible eye irritation in albino rabbits.  
**Skin:** Product is not a skin irritant for albino rabbits Acute dermal LD<sub>50</sub> > 2,000 mg/kg (rabbits). Primary skin irritation index = 0.00 (rabbits). Product is not a sensitizer when tested on guinea pigs.  
**Ingestion:** Acute oral toxicity LD<sub>50</sub> > 5,000 mg/kg (rats). Encapsulation greatly reduces the toxicity and irritation potential of the active ingredient.  
**Inhalation:** When sprayed, produces particles larger than considered respirable. Excessive exposure may produce signs of cholinesterase depression.

#### 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).

### SECTION 12. ECOLOGICAL INFORMATION

This pesticide is toxic to fish, aquatic invertebrates, small mammals and birds. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate. 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.

### SECTION 13. DISPOSAL CONSIDERATION

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

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

**Container Disposal (15 Gal Drums):** Empty container by using the product according to the label directions. Do not reuse this container! Triple rinse (or equivalent). Place empty container in trash or offer for recycling if available. If container is partly filled, call your local solid waste agency for disposal instructions. NEVER PLACE UNUSED PRODUCT DOWN ANY INDOOR OR OUTDOOR DRAIN OR SEWER.

**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 WASTE DOWN ANY INDOOR OR OUTDOOR DRAIN OR SEWER.

### SECTION 14. TRANSPORT INFORMATION

#### SHIPMENT BY GROUND WITHIN U.S. (DOT CLASSIFICATION)

**Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S.  
**Hazard Class:** 9  
**UN I.D. NO.:** UN 3082  
**Packing Group:** III  
**Proper Shipping Description:** Environmentally Hazardous Substance, Liquid, NOS (Chlorpyrifos), 9, UN 3082, PG III, RQ  
**Package Marking:** Environmentally Hazardous Substance, Liquid, NOS (Chlorpyrifos), UN 3082, RQ  
**Package Labeling:** Class 9 (Misc. Hazard)  
**Other Requirements:** UN approved packaging required.

#### ALL OTHER MODES OF TRANSPORT

No information available.

Product in unopened original packaging is compliant with all regulations for ground shipment within the U.S. WMG disclaims any liability for claims or damages that may result from shipment by other means. Consult appropriately trained shipping professional before offering for shipment by water or air.

### SECTION 15. REGULATORY INFORMATION

#### CERCLA

This product contains the CERCLA listed chemical *Chlorpyrifos* 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:

Immediate (Acute) Health Hazard

#### SARA TITLE III SECTION 313 CHEMICALS

This product contains no substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) or 40 CFR Part 372 in concentrations above the de minimus concentration level.

#### STATE RIGHT-TO-KNOW

This product contains a component cited on certain state lists as mentioned.  
Chlorpyrifos CAS No. 2921-88-2 List NJ3, PA1, PA3  
NJ3=New Jersey Workplace Hazardous Substance (present at > or = to 1.0%)  
PA1=Pennsylvania Hazardous Substance (present at > or = to 1.0%)  
PA3= Pennsylvania Environmental Hazardous Substance (present at > or = to 1.0%)

#### 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 - 1

#### HMS HAZARD RATING INFORMATION

HEALTH - 1      FLAMMABILITY - 0      REACTIVITY - 1

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 hr)



**WHITMIRE MICRO-GEN**  
RESEARCH LABORATORIES, INC.

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