

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 Duraplex® TR Micro Total Release 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 Duraplex® TR
Micro Total Release Insecticide

EPA Reg. No.: 499-405

Product Code: 09-1922 (12 x 2 oz)

EPA Signal Word: WARNING

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 INGREDIENT (9.6%)	%	CAS NO.
Chlorpyrifos	8.0	2921-88-2
Cyfluthrin	1.6	68359-37-5
OTHER INGREDIENTS* (90.4%)	%	CAS NO.
Isopropanol	proprietary	67-63-0
Hydrocarbons C3-C4	proprietary	68476-40-4

* 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 ³	NE	0.2 mg/m ³
Cyfluthrin	NE	NE	NE	NE
Isopropanol	NE	400 ppm	500 ppm	400 ppm
Hydrocarbons C3-C4	NE	NE	NE	1,000 ppm

SECTION 3. HAZARDS IDENTIFICATION

NOTE TO PHYSICIAN

This product contains an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine.

SIGNS/SYMPTOMS OF EXPOSURE

Product causes moderate eye irritation. Prolonged exposure may cause skin irritation. Excessive exposure may produce signs of Cholinesterase depression (see below).

SIGNS/SYMPTOMS OF CHOLINESTERASE DEPRESSION

Excessive exposure may cause signs of cholinesterase inhibition including discomfort or tightness in chest, difficulty in breathing, stomach pain, nausea, 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 of exposure will not be attained.

ROUTES OF ENTRY

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

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition in open flame will result in carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides, chlorides and sulfides.

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

Contents under pressure. Exposure to temperatures above 130°F may cause bursting.

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.

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 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 min. Call a poison control center or doctor for treatment advice.

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: Persons with a history of asthma may be more susceptible to overexposure.

Emergency Telephone Number of Prosar: 800-225-3320 (for medical emergencies)

SECTION 5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION

Flash Point (for propellant): -156°F (estimated)

Flame Projection: > 18"

Explosibility Limits of Propellant in Air (% by volume):

Lower (LEL) = 1.8% Upper (UEL) = 9.5%

NFPA 30B Flammability: Level 3 Aerosol

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

Contents under pressure. Exposure to temperatures above 130°F may cause bursting.

IN CASE OF FIRE

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

Special Fire Fighting Procedures: Fire fighting personnel should wear full protective equipment and positive pressure self-contained breathing apparatus (SCBA) approved for firefighting.

SECTION 6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR LEAK

If container begins to leak (through puncture, etc.), eliminate all ignition sources and allow to discharge completely in well ventilated area, then dispose of as directed below.

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 12.5 lbs of this product (approx. 100 containers) 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: Protective eyewear such as goggles, face shield or safety glasses is recommended.

Skin: Wear chemical-resistant gloves, coveralls over long-sleeved shirt and long pants, chemical-resistant footwear plus socks, and chemical-resistant head gear for overhead exposure. (Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.)

Inhalation: Wear a NIOSH approved mist filtering respirator with MSHA/NIOSH approval number TC-21C with any R or P 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. **WARNING** – May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco.

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 AND CHEMICAL HAZARDS

Extremely Flammable. Contents under pressure. Keep away from fire, sparks and heated surfaces. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. This product contains a highly flammable ingredient. It may cause a fire or explosion if not used properly. Follow "Directions for Use" on the label very carefully.

OTHER PRECAUTIONS

Do not use this product in greenhouses with unvented or defective gas heating systems or when open combustion exists. When making applications do not place cans within 10 horizontal feet of any ignition source such as pilot lights, other open flames, or running electrical appliances that cycle off and on. All human occupants and pets must be removed before treatment. Greenhouse must be ventilated according to the requirements of the Worker Protection Standard before reentry.

STORAGE

Do not contaminate water, food or feed. Store in a cool, dry place away from heat or open flame and inaccessible to children.

MATERIAL SAFETY DATA SHEET

Prescription Treatment® brand Duraplex® TR Micro Total Release Insecticide

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

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

Respiratory Protection: Wear a NIOSH approved mist filtering respirator with MSHA/NIOSH approval number TC-21C with any R or P filter. See 29 CFR 1910.134 for respiratory protection, training, and testing requirements.

Protective Gloves: Wear chemical-resistant gloves. (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: Protective eyewear such as goggles, face shield or safety glasses is recommended.

Other Protective Equipment: coveralls over long-sleeved shirt and long pants; chemical-resistant footwear plus socks; chemical-resistant headgear for overhead exposure.

Restricted Entry Interval (REI): 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 exposures. 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: Ventilate greenhouse according to the requirements of the Worker Protection Standard before reentry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Sprays as a strong mist

Solubility in Water: Soluble

Viscosity: 2.56 cps at 75°F

Boiling Point: NE

pH: NE

Odor: Characteristic Cyfluthrin and Chlorpyrifos odor

Vapor Pressure: NE

Vapor Density: NE

Freezing/Melting Point: NE

Specific Gravity: 0.8596 g/cm³ @ 68°F

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY

Stability: Indefinite when stored and used according to label directions.

Conditions to Avoid: Heat, sparks and open flame

Incompatibility (Materials to Avoid): Strong oxidizing agents, strong acids and bases

Hazardous Polymerization: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition in open flame will result in carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides, chlorides and sulfides.

SECTION 11. TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY

Primary: Inhalation

Secondary: Skin

Tertiary: Ingestion

ACUTE

Eyes: Product causes moderate, but reversible eye irritation. Produced conjunctival irritation, clearing in 4 days (rabbits). Corneal opacity was observed, clearing in 7 days (rabbits). No iritis was observed.

Skin: Prolonged exposure may cause skin irritation. Acute dermal toxicity: LD₅₀ > 2,000 mg/kg (rabbits). Primary skin irritation Index = 0.59 (rabbits). Product is not a dermal sensitizer when tested on guinea pigs.

Ingestion: Acute oral toxicity: LD₅₀ = 630 mg/kg (rats).

Inhalation: Acute inhalation toxicity: LC₅₀ > 0.86 mg/L (rats).

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

Not applicable. Product is not used outdoors.

SECTION 13. DISPOSAL CONSIDERATION

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

Container Disposal: Do not puncture or incinerate! Empty container by using the product according to the label directions. Offer empty container for recycling, if available, or place in trash if allowed by state and local regulations. If container is partly full, contact your local solid waste agency for disposal instructions.

Waste Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

SECTION 14. TRANSPORT INFORMATION

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

Proper Shipping Description: Consumer Commodity ORM-D

Package Marking: Consumer Commodity ORM-D

Package Labeling: None required

Certified Packaging: Not required

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. Packages offered or intended for other modes of transportation are subject to additional requirements. Consult an appropriately trained shipping professional before offering for shipment.

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 SECTIONS 311/312 HAZARD CLASS

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 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

Fire Hazard

Release of Pressure (Puncture) 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:

Cyfluthrin (CAS #68359-37-5)

1.6% by weight

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 - 2

FLAMMABILITY - 4

REACTIVITY - 1

HMIS HAZARD RATING SYSTEM

HEALTH - 2

FLAMMABILITY - 4

REACTIVITY - 1

KEY: 4 = Severe
3 = High
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.

Effective Date: 05/13/08
Review Date: 05/13/08
Supersedes: 09/16/05
Text ID #: 080703-6
Code #: 209-078
WMG Part No.: 19-0702-06