

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** TM + CTN E-Pro 66.6 WDG Fungicide  
**DESCRIPTION:** A water-dispersible granule fungicide for use on turf and ornamentals.

#### COMPANY IDENTIFICATION:

Etigra™  
501 Cascade Pointe Lane  
Suite 103  
Cary, NC 27513  
www.etigra.com

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient         | Chemical Name                                     | Formula  | CAS #      | Composition |
|--------------------|---|--|------------|-------------|
| Chlorothalonil     | tetrachloroisophthalonitrile                      | C <sub>8</sub> CL <sub>4</sub> N <sub>2</sub>                                | 1897-45-6  | 50%         |
| Thiophanate-methyl | [dimethyl 4,4-o-phenylenebis-(3-thioallophanate)] | C <sub>12</sub> H <sub>14</sub> N <sub>4</sub> O <sub>4</sub> S <sub>2</sub> | 23564-05-8 | 16.66%      |

### 3. HAZARD IDENTIFICATION

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS:** Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Harmful if absorbed through skin. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to aquatic invertebrates and wildlife. 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 neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly drained or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter stripes, and areas overlaying tile drainage systems that drain to surface water.

### 4. FIRST AID

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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

**IF INHALED:** 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 treatment advice.

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

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote is available. All treatments should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred. Persons having temporary skin irritation may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

Manufactured for:  
Etigra™  
501 Cascade Pointe Lane  
Suite 103  
Cary, NC 27513  
www.etigra.com  
REV 1206

Etigra  
Emergency Phone: Chemtrec 800-424-9300  
Effective Date: December 26, 2006  
EPA Reg. No. 79676-27



ETIGRA™

## 5. FIRE-FIGHTING MEASURES

**Flashpoint:** N/A

**Flammable Limits (LFL-UFL):** N/A

**Fire and Explosion Hazards:** Can decompose in fire, releasing gasses that may be irritating and toxic to the respiratory tract.

**Means of Extinction:** Use foam, dry chemical, carbon dioxide, earth, sand or water spray.

**Fire-Fighting Instructions:** Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Use as little water as possible and use spray or fog and avoid heavy hose streams to prevent runoff. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical extinguishing systems are preferred to prevent environmental damage due to runoff.

**Fire-Fighting Equipment:** Self-contained breathing apparatus with full face piece.

**Hazardous Combustion Products:** Hydrogen cyanide, hydrogen chloride, carbon monoxide and nitrogen oxide.

## 6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately observing the precautions in Section 8 of this MSDS. Isolate the hazard area and keep unnecessary and unprotected personnel from entering. Prevent material from contaminating soil or from entering sewage and drainage systems and bodies of water.

**SMALL SPILLS:** Shovel up material and place in a container for reuse or disposal. Clean contaminated floors and objects thoroughly, observing all environmental regulations.

**LARGE SPILLS:** Avoid creating a dust cloud and take all possible measures to reduce airborne dust. Vacuum, shovel or sweep up material and place in a container for reuse or disposal. Pick up wash liquid with additional absorbent and place in a disposable container. After removal, flush contaminated area thoroughly with water.

## 7. HANDLING AND STORAGE

Avoid breathing dust or vapor and wear goggles or face shield. Do not allow to come into contact with skin, eyes and clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a secured storage area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** To avoid exceeding exposure limits, handle only with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

**Protective Clothing:** Tight-fitting safety goggles or a faceshield, a NIOSH-approved respirator with any R, P, N or HE filter, and long-sleeved shirt, long pants and shoes plus socks. When mixing/loading or handling concentrated product, wear chemical-resistant gloves made of waterproof material such as polyethylene or polyvinyl chloride (PVC).

**General:** Wash thoroughly with soap and water after handling. Discard clothing and other absorbent materials that have been heavily contaminated with this product; do not reuse them. Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Solid Granules

**Odor:** Faint sulfur odor

**pH:** 5.30

**Flashpoint (PMA-4):** N/A

**Melting Point:** 100°C

**Tap Density:** 0.759 g/ml

**Solubility in Water:** Dispersible

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Stable under normal use and transportation situations.

**CHEMICAL STABILITY:** Stable but may decompose if heated.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride and oxides of nitrogen, sulfur and carbon.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Highly alkaline materials, oxidizing agents, lime sulfur, Bordeaux mixture, copper compounds.

**POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE ORAL TOXICITY

Oral LD<sub>50</sub> (rat): > 5,000 mg/kg

### ACUTE DERMAL TOXICITY

Dermal LD<sub>50</sub> (rat): > 5,000 mg/kg

### ACUTE INHALATION TOXICITY

Inhalation LC<sub>50</sub> (rat): 0.054 – 0.53 mg/L

### EYE IRRITANT

Rabbit – Causes severe eye irritation

### SKIN IRRITATION

Rabbit – Causes moderate skin irritation

### SENSITIZATION

Guinea Pig – Contact Sensitizer

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

None known.

### CARCINOGENICITY:

**ACGIH:** Not listed

**IARC:** Not listed

**NTP:** Not listed

**OSHA:** Not listed

**MUTAGENIC DATA:** No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

**ADDITIONAL DATA:** Not known to cause reproductive or birth defects at normal exposure levels.

## 12. ECOLOGICAL INFORMATION

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## 13. DISPOSAL CONSIDERATIONS

**Do not contaminate water, food or feed by disposal.**

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Completely empty bag into manufacturing equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## 14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated by DOT

DOT HAZARD CLASS OR DIVISION: N/A

DOT UN/NA NUMBER: N/A

DOT PACKING GROUP: N/A

REPORTABLE QUANTITY: N/A

MARINE POLLUTANT: Not listed

DOT EMERGENCY RESPONSE GUIDE: N/A

## 15. REGULATORY INFORMATION

### FIFRA –

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

### SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

### SARA Title III – Section 311/312 Hazard Categories

Immediate, Delayed

### SARA Title III – Section 312 Threshold Planning Quantity

N/A

### SARA Title III – Section 313 Reportable Ingredients

Chlorothalonil

Thiophanate methyl

### CERCLA –

None listed

### CALIFORNIA PROP 65 STATUS –

Not listed

## 16. OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

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