

# Propiconazole E-Pro 14.3 MEC

Fungicide

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Propiconazole E-Pro 14.3 MEC Fungicide

**Active Ingredient:** Propiconazole  
**Chemical Formula:** C<sub>15</sub>H<sub>17</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>2</sub>

#### COMPANY IDENTIFICATION:

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

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Propiconazole	CAS No. 60207-90-1	14.3%
Other Ingredients		85.7%

### 3. HAZARD IDENTIFICATION

#### EMERGENCY OVERVIEW

Can cause substantial but temporary eye irritation. May be harmful if swallowed, inhaled or absorbed through skin. Avoid contact with eyes, skin or clothing. Avoid breathing vapor or spray mist. Keep out of reach of children.

#### POTENTIAL HEALTH EFFECTS:

**EYE:** Substantially irritating to the eyes. Degree of injury will depend on the amount of material that gets into eye and the speed and thoroughness of the first aid treatment.

**SKIN:** Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**INHALATION:** Slightly irritating to respiratory tract.

**INGESTION:** May be harmful if swallowed.

### 4. FIRST AID

**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 SWALLOWED:** 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.

**IF ON SKIN OR CLOTHING:** 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.

**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 further treatment advice.

**NOTE TO PHYSICIAN:** No specific antidote, treat patient symptomatically. Eye contact may require specialized ophthalmologic attention. If ingested, induce emesis or lavage stomach carefully to avoid aspiration.

### 5. FIRE-FIGHTING MEASURES

**Flash point (method):** >105°C (>221°F) (PMA-4)

**Flammable Limits (LFL-UFL):** Unknown

**Fire and Explosion Hazards:** This material can burn in fire releasing irritating and toxic gases due to thermal decomposition or combustion.

**Suitable Extinguishing Media:** Use carbon dioxide, dry chemical, foam or water spray.

**Fire Fighting Equipment:** Wear full fire-fighting turn-out gear (Bunker gear).

**Hazardous Combustion Products:** Unknown.

**NFPA Hazard Ratings:** Health 2, Flammability 2, Instability 0.

### 6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

**Small Spill:** Absorb small spills with sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

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REV 1207

Etigra

Emergency Phone: Chemtrec 800-424-9300

Effective Date: June 23, 2005

EPA Reg. No. 79676-8

  
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**Large Spill:** Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal. Clean up wash liquid with additional absorbent and place in a disposable container. After clean up, flush contaminated area thoroughly with water. This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

## 7. HANDLING AND STORAGE

Keep out of reach of children. Use only in a well-ventilated area. Do not reuse this container. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling. Store away from food, feed and drinking water.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**EXPOSURE LIMITS (8 HOUR TWA):** (Refer to Section 3)

**ENGINEERING CONTROLS:** Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Refer to the product label for additional information regarding application of this product.

**Personal Protective Equipment:**

**Eyes and Face:** For splash, mist or spray exposure, wear chemical protective goggles or a full face shield.

**Protective Clothing:** Long-sleeved shirt and long pants, shoes plus socks, and a chemical-resistant apron when cleaning equipment, mixing, or loading.

**Gloves:** Wear chemical-resistant gloves such as barrier laminate, butyl rubber ( $\geq 14$  mils), nitrile rubber ( $\geq 14$  mils), neoprene rubber ( $\geq 14$  mils), polyvinyl chloride (PVC) ( $\geq 14$  mils), or viton ( $\geq 14$  mils).

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

## USER SAFETY RECOMMENDATIONS

- 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Amber liquid

**Odor:** Slight solvent odor

**Molecular Formula (technical):**  $C_{15}H_{17}Cl_2N_3O_2$

**pH:** 5.59

**Density:** 1.086 g/ml

**Solubility in Water:** Soluble in water.

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Avoid temperatures above 150°F and below 20°F.

**CHEMICAL STABILITY:** Stable, however may decompose if heated.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Alkaline and acidic conditions and materials, oxidizing materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Unknown.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE ORAL TOXICITY

Oral LD<sub>50</sub> (rat): >3,000 mg/kg

### ACUTE DERMAL TOXICITY

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

### ACUTE INHALATION TOXICITY

Inhalation LC<sub>50</sub> (rat): >2.02 mg/L (4 hr.)

### EYE IRRITATION

Moderately irritating to the eyes (rabbit)

### SKIN IRRITATION

Slightly irritating to the skin (rabbit)

### DERMAL SENSITIZATION

Skin sensitizer (guinea pig)

**EFFECTS OF ACUTE EXPOSURE:** This product has low oral, dermal and inhalation toxicity. This product is substantially irritating to the eyes; the degree of injury will depend on the amount of material that gets into eye and the speed and thoroughness of the first aid treatment.

**EFFECTS OF CHRONIC EXPOSURE:** In studies with laboratory animals, propiconazole did not cause teratogenicity, neurotoxicity or carcinogenicity in male and female rats and male mice.

In laboratory animals that have ingested large doses of propiconazole during their life span, liver enlargement is often noted and an increase of neoplastic and non-neoplastic liver cell tumors in male mice at 2500 ppm in the diet was observed. At a dose of 850 ppm in the diet, there was a statistically significant increase in benign adenomas but no increase in carcinomas.

In studies of rats, developmental toxicity in the form of cleft palate occurred. In studies of rabbits, no adverse development effects were identified.

An overall absence of genotoxicity has been demonstrated in tests of mutagenicity, DNA damage and chromosome aberrations.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known.

### CARCINOGENICITY:

**IARC:** Not listed

**NTP:** Not listed

**OSHA:** Not listed

**OTHER:** (ACGIH) Not listed

**MUTAGENIC DATA:** No evidence of effects during *in vivo* or *in vitro* studies.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:** This pesticide is moderately toxic to fish and invertebrates, and practically non-toxic to birds and bees. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater.

**ENVIRONMENTAL PROPERTIES:** Propiconazole has low mobility and is not persistent in soil, has low bioaccumulation potential, and is stable in water (sinks in water after 24 hours).

**Note:** The information presented in this section applies to the active ingredient, propiconazole.

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, 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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## 14. TRANSPORT INFORMATION

DOT HAZARD CLASS OR DIVISION: Not Regulated

U.S. DOT PROPER SHIPPING NAME: N/A

UN NUMBER: N/A

DOT PACKING GROUP: N/A

REPORTABLE QUANTITY: None

MARINE POLLUTANT: Not listed

U.S. SURFACE FREIGHT CLASS: Agricultural Fungicides, Liquid, NOIBN

## 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.

CERCLA REPORTABLE QUANTITY –

None

SARA Title III – Section 302 Extremely Hazardous Substances  
Not listed

SARA Title III – Section 311 Hazardous Categories  
Immediate

SARA Title III – Section 312 Threshold Planning Quantity  
The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA Title III – Section 313 Reportable Ingredients  
Propiconazole (60207-90-1)

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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