

Chlormequat E-Pro

Plant Growth Regulator

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Chlormequat E-Pro
Plant Growth Regulator
Active Ingredient: Chlormequat chloride
Chemical Name: (2-chloroethyl)trimethylammonium
chloride
Chemical Formula: C₅H₁₃Cl₂N

COMPANY IDENTIFICATION:

Etigra, LLC
2214 Highway 44 West
Inverness, FL 34453
UNITED STATES

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chlormequat Chloride CAS No. 999-81-5 11.8%

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

POTENTIAL HEALTH HAZARDS:

EYE – Causes moderate eye irritation.

INGESTION – Harmful if swallowed.

POTENTIAL PHYSICAL HAZARDS:

N/A

4. FIRST AID

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 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.

NOTE TO PHYSICIAN: The use of atropine is contraindicated.

5. FIRE-FIGHTING MEASURES

Flash Point: >190°F (CC)

Flammable Limits (LFL-UFL): N/A

Fire and Explosion Hazards: None. This product will not burn or burns with difficulty.

Means of Extinction: Use extinguishing agent suitable for surrounding fires.

Fire-Fighting Instructions: Keep unnecessary people away and conduct fire-fighting and rescue operation from upwind of the fire area. Evacuate people downwind who may come in contact with smoke, fumes or contaminated surfaces. Do not decontaminate personnel or equipment, or handle broken packages or containers without protective equipment as specified in the Exposure Control Section. Decontaminate emergency personnel with soap and water before leaving the fire area. Use as little water as possible and use spray or fog and avoid heavy hose streams to prevent spreading. If possible, dike and collect water used to fight fire to prevent/minimize runoff. If water enters a drainage system, advise authorities downstream.

Fire-fighting Equipment: Self-contained breathing apparatus with full face piece. Wear full fire-fighting turn-out gear (Bunker gear).

Hazardous Combustion Products: May produce carbon monoxide, carbon dioxide, hydrogen chloride and aldehydes.

NFPA RATINGS: Health: 2 / Flammability: 0 / Reactivity: 0

Manufactured for:
Etigra, LLC
2214 Hwy 44 West
Inverness, FL 34453

Etigra, LLC
Emergency Phone: Chemtrec 800-424-9300
Effective Date: May 4, 2006
EPA Reg. No. 81959-12

REV 0506


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6. ACCIDENTAL RELEASE MEASURES

Cover with an inert absorbent material, sweep up and place in a closed container for disposal. Flush area with water. Dispose in accord with local, state and federal regulations.

7. HANDLING AND STORAGE

Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. Wash thoroughly after handling this product. Store in original container in a secured dry storage area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes and Face: Protective eyewear (goggles, face shield, or safety glasses with front, brow, and temple protection).

Protective Clothing: All pesticide handlers must wear a long-sleeved shirt and long pants and shoes plus socks.

Gloves: All pesticide handlers must wear chemical-resistant gloves. Inspect gloves regularly for leaks. Thoroughly wash the outside of gloves with soap and water prior to removing.

General: Wash thoroughly with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid

Odor: Aromatic

pH: 6.35

Flashpoint (PMA-4): N/A

Specific Gravity: 1.021 g/ml at 20°C

Solubility in Water: Soluble

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Freezing temperatures (32°F / 0°C)

CHEMICAL STABILITY: Stable.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon monoxide, carbon dioxide, hydrogen chloride and alkylamines.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong alkalis.

POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY

Oral LD₅₀ (rat, female): 3,129 mg/kg

ACUTE DERMAL TOXICITY

Dermal LD₅₀ (rat): > 5,000 mg/kg

ACUTE INHALATION TOXICITY

Inhalation LC₅₀ (rat): >2.04 mg/L

EYE IRRITANT

Rabbit – Mildly Irritating

SKIN IRRITANT

Rabbit – Slightly Irritating

SENSITIZATION

Guinea Pig – Not a 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: Chlormequat chloride is not known to cause reproductive or birth defects.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This product is toxic to wildlife. Keep out of lakes, streams and ponds. DO NOT contaminate water when disposing of equipment washwaters.

13. DISPOSAL CONSIDERATIONS

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

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

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 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 Listed

SARA Title III – Section 311/312 Hazard Categories Immediate

SARA Title III – Section 312 Threshold Planning Quantity 100/10,000 lbs.

SARA Title III – Section 313 Reportable Ingredients None

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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