

# SAFETY DATA SHEET



## ETHREL 720™

Date of Issue: February 2016

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

**Chemical name of active ingredient(s):** 720 g/L chlorelthephon  
**Recommended use:** Plant growth regulator for thinning, loosening or ripening in various crops  
**Supplier:** **Etec Crop Solutions Ltd**  
**PO Box 51584**  
**Pakuranga 2140**  
**Auckland**  
**Emergency telephone number:** **0800 Poison (0800 764 766) 24 Hours**

### 2. HAZARDS IDENTIFICATION

**Hazard Classification:** Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.  
**Required identification Details:** **HSNO Class\***  
6.1E, 6.9B, 8.2C, 8.3A, 9.1C, 9.2A  
May be harmful if swallowed, inhaled or absorbed through the skin.  
Harmful – presumed to/may cause organ damage from repeated oral exposure at high doses.  
Danger – this product is corrosive to the skin and may cause skin burns.  
Danger – this product is corrosive and may cause eye damage.  
Harmful – to aquatic life with long-lasting effects.  
Very toxic to the soil environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Ethepon	16672-87-0	48.0%
Other ingredients	(non hazardous)	

### 4. FIRST-AID MEASURES

#### Description of necessary first aid measures:

General information: Contaminated clothing and shoes must be removed immediately.

#### Effects and symptoms

## **First-aid measures**

### **Inhalation:**

Bring casualties into the fresh air, if necessary making them inhale oxygen; keep the patient's body warm and protect it from heat loss. Immediate hospitalization.

### **Ingestion:**

Wash out mouth with water. DO NOT induce vomiting. Give a glass of water

### **Skin contact:**

After contact with skin, wash immediately with plenty of water and soap. Apply Vitamin E cream, toilet milks or local anaesthetic cream to reduce pain.

### **Eye contact:**

Contamination of the eyes must be treated by thorough irrigation with water, with the eyelids held open. A doctor (or eye specialist) should be consulted immediately.

### **Notes to a physician:**

### **Workplace facilities:**

### **Required Instructions:**

Contact the National Poisons and Hazardous Chemicals Information centre in Dunedin, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON.

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## **5. FIRE-FIGHTING MEASURES**

### **HAZCHEM Code:**

### **Extinguishing media :**

Water spray, carbon dioxide, foam, dry agent

### **Hazardous thermal (de)composition products:**

Fire fighters must wear self-contained breathing apparatus.

### **Protection of fire-fighters:**

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## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions:**

#### ***Emergency Procedures:***

Ensure suitable personal protection during removal of spillages.

This means wearing eye protection, chemically resistant gloves, boots and overalls.

### **Environmental precautions:**

Washings must be prevented from entering surface water drains or waterways.

### **Methods for cleaning up:**

Keep all bystanders away.

Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves.

Contaminated material must be disposed of in accordance with all local authority requirements.

- a. For quantities up to 50L of product bury in a secure approved landfill site.
- b. For quantities greater than 50L seek advice from the manufacturer (use emergency contact number) before attempting disposal. Contain in

a secure location until disposal method is established.

- c. Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

### **Procedure for Disposal**

- a) Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site.
- b) Submit clean empty container for recycling through Agrecovery. If this is not possible bury in landfill.
- c) Product or unused spray mix should be disposed of according to label instructions.

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## **7. HANDLING AND STORAGE**

**Handling:** Transfer and handle product only in a closed system.

**Storage:** Keep container tightly closed in a cool, well ventilated place.

**Packaging materials:**

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Workplace Exposure Guidelines**

**Workplace exposure standards:**

**Application in the workplace:**

**Exposure Standards outside:  
The workplace:**

**Engineering measures**

**Hierarchy of controls:**

**Exposure control measures:**

**No Hazard indication:**

**Ventilation specification:** Use in well ventilated areas.

### **Personal Protective Equipment**

**Detail specifications for equipment:**

**Respiratory system:** Where insufficient ventilation, use suitable respiratory protection.

**Skin and body:**

**Hands:** Wear suitable protective gloves (e.g. Polyvinyl chloride – PVC ). After contamination with product change the gloves immediately.

**Eyes:** Chemical goggles/face protection.

Other protective equipment

**General hygiene:**

Wear suitable protective clothing.

Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately.

Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>Colour:</b>	Clear colourless to pale yellow
<b>Odour:</b>	Characteristic odour
<b>pH:</b>	1-2
<b>Vapour Pressure:</b>	<0.01 mPa at 20°C
<b>Vapour Density:</b>	
<b>Flammability</b>	Autoflammability at 600°C
<b>Boiling/melting point:</b>	Decomposes above 75°C
<b>Solubility:</b>	100%
<b>Specific gravity or density:</b>	1.207 at 20°C
<b>Information for flammable material including:</b>	
- <b>Lower and upper flammability limits</b>	
- <b>Flashpoint (state test Method</b>	
<b>Auto – ignition Temperature:</b>	Non flammable
<b>Octanol/water partition coefficient:</b>	
<b>Explosion properties:</b>	Non-combustible
<b>Corrosive properties:</b>	Corrosive

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## 10. STABILITY AND REACTIVITY

<b>Conditions to avoid:</b>	Avoid temperatures above 75°C.
<b>Materials to avoid:</b>	Oxidizing agents and alkaline materials. Corrosive to metals such as iron, aluminium and copper. Reaction with bases causes evolution of ethylene gas. Thermal decomposition products may be hazardous – these may include oxides of carbon, oxides of phosphorus, hydrogen chloride.
<b>Hazardous decomposition Products:</b>	
<b>Hazardous polymerization:</b>	
<b>Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous reactions :</b>	Chloride compounds and nitrogen oxides.

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity – Oral :</b>	LD <sub>50</sub> : (rat) 4229mg/kg
<b>Acute toxicity - Dermal :</b>	LD <sub>50</sub> (rabbit) 5730mg/kg
<b>Acute toxicity – Inhalation:</b>	LC <sub>50</sub> : (rat) >5.37mg/l Exposure time: 4h Highest attainable concentration.
<b>Skin irritation :</b>	Irritating to skin (rabbit)
<b>Eye irritation:</b>	Moderate to highly irritant (rabbit)
<b>Sensitization :</b>	Non-sensitising (guinea pig)
<b>Common name :</b>	
<b>Chronic toxicity :</b>	
<b>Carcinogenicity:</b>	
<b>Mutagenicity:</b>	
<b>Reproduction toxicity:</b>	
<b>Other information :</b>	

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Fish

LC50: >140mg/L (96h) for carp  
LC50: 720mg/L(96h) for rainbow trout  
EC50 : 577mg/L Daphnia (48h)

#### Daphnia magna

#### Algae

#### Bees

#### Common name

#### Mobility Soil

#### Water

#### Persistence/degradability Soil

#### Water

### Bioaccumulative potential :

#### Ecotoxicity

#### Fish

#### Daphnia magna

#### Algae (scenedesmus subspicatus)

#### Birds

Acute oral LD50 for bobwhite quail 1072mg/kg  
Acute oral LD50 for quail > 10000mg/kg

#### Bees

#### Earthworm

Non-toxic

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## 13. DISPOSAL CONSIDERATIONS

**Methods of disposal :** (include the property and information required out of the HS (disposal) Regulations 2001)

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## 14. TRANSPORT INFORMATION

### International transport regulations

#### International transport regulations:

**UN number:** UN3265

**Land - Road/Railway** UN 3265 Corrosive Liquid, Acidic, Organic, N.O.S. (Chlorethephon), Hazard Class 8, Packing Group III, Hazchem Code 2X.

**Sea** UN 3265 Corrosive Liquid, Acidic, Organic, N.O.S. (Chlorethephon), Hazard Class 8, Packing Group III, Hazchem Code 2X.

**Air** UN 3265 Corrosive Liquid, Acidic, Organic, N.O.S. (Chlorethephon), Hazard Class 8, Packing Group III, Hazchem Code 2X.

**Proper shipping name :** Corrosive Liquid, Acidic, Organic, N.O.S. (Chlorethephon),

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## 15. REGULATORY INFORMATION

**ACVM Registered Number:** P9099  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions

**HSNO Approval Code:** HSR101005  
See [www.epa.govt.nz](http://www.epa.govt.nz) for controls.

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## 16. OTHER INFORMATION

#### Additional information:

- 6.1E May be harmful if swallowed, inhaled or absorbed through the skin.
- 6.9B Harmful – presumed to/may cause organ damage from repeated oral exposure at high doses.
- 8.2C Danger – this product is corrosive to the skin and may cause skin burns.
- 8.3A Danger – this product is corrosive and may cause eye damage.
- 9.1C Harmful – to aquatic life with long-lasting effects.
- 9.2A Very toxic to the soil environment.

*Disclaimer*

*Trademarks:* Ethrel is a registered trademark of the Bayer Group.

