

## SAFETY DATA SHEET

### SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

**Product Name:** Ethephon 480 Growth Regulator  
**Company Name:** Kenso Corporation (M) Sdn Bhd  
**Address:** 49B, Apollo Drive, Rosedale, Auckland 063 NZ  
**Telephone Number:** (09) 410 0861  
**Emergency Telephone Number:** (24 Hours) 0800 243 622  
**Use:** A plant growth regulator for bloom thinning, vigour control and return bloom enhancement in apples and ripening tomatoes, early apples and kiwifruit. Also for the suppression of annual poa seedhead in turf.

### SECTION 2 – HAZARDS IDENTIFICATION

**Hazard classification:** 6.1E, 6.9B, 8.2C, 8.3A, 9.1C, 9.2A  
**Priority Identifier:** HARMFUL  
KEEP OUT OF REACH OF CHILDREN  
**Secondary Identifiers:** 6.1E = Acute toxicant  
6.9B = Danger of serious damage to health by prolonged exposure  
8.2C = Causes severe skin burns and eye damage  
8.3A = Eye corrosive  
9.1C = Harmful to aquatic life with long lasting effects  
9.2A = Very toxic to the soil environment.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Chlorethephon	16672-87-0	533.3g/L
Other non-hazardous components	secret	Up to 1L

### SECTION 4 – FIRST AID MEASURES

**Symptoms of exposure:** No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms that may arise if the product is mishandled are:

If Swallowed Causes burns to mouth and throat.

If in Eyes Causes burning and serious irritation.

If on Skin Causes burns to skin.

If Inhaled May cause irritation to airways and lungs

**First aid actions:** Immediately call a POISON CENTRE (0800 764 766) or doctor/physician. If medical advice is needed, have product container or label at hand.

If Swallowed Rinse mouth. Do NOT induce vomiting.

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If on Skin (or Hair)	Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
If Inhaled	Remove to fresh air and keep at rest in a position comfortable for breathing.
<b>Workplace facilities:</b>	An eyewash, safety shower and general hygiene facilities should be available.
<b>Notes for medical personnel:</b>	Treat symptomatically.

## SECTION 5 – FIRE FIGHTING MEASURES

<b>Type of Hazard:</b>	Corrosive. Material is not flammable.
<b>HAZCHEM code:</b>	2X
<b>Combustion products:</b>	Unknown. Decomposes above 75°C.
<b>Extinguishing media &amp; methods:</b>	Use media appropriate to flammable material involved.
<b>Recommended protective clothing:</b>	Full protective clothing and self-contained breathing apparatus.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>Personal protection:</b>	See Section 8.3 for appropriate PPE. Ensure appropriate PPE is worn, covering skin and eyes. Do not breathe mist/spray.
<b>Containment and clean up:</b>	Do not allow to enter waterways. Collect spillage. Collect with absorbent material. Decontaminate spill area with detergent and water.
<b>Special requirements:</b>	See Section 13 for instructions for the disposal of waste/contaminated material.

## SECTION 7 – HANDLING AND STORAGE

### **Handling:**

Wear appropriate PPE as detailed in Section 8.3. Keep container closed except when in use. Use in a well-ventilated areas. Keep out of reach of children. Read label before use.

### **Storage:**

Store locked up in a cool well-ventilated area away from foodstuffs.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

### **Workplace Exposure Guidelines**

Workplace exposure standards No exposure standards have been set for this substance.

### **Engineering Controls**

Use in a well-ventilated area.

### Personal Protective Equipment (PPE)

Wear suitable gloves (Nitrile or PVC). Wear chemical resistant goggles or face protection. Wear chemical resistant protective coveralls.

### General hygiene

Wash hands and exposed skin after work and before meals. Keep away from food, drink and tobacco.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless to pale yellow liquid
Odour	Characteristic
Specific gravity (kg/L)	1.21
Solubility	Infinite in water
pH	0.7-2.0
Boiling point (°C)	>100
Freezing point (°C)	Not available
Flammability Information	Not flammable

## SECTION 10 – STABILITY AND REACTIVITY

Stability of substance:	Stable under normal conditions.
Conditions to avoid:	Avoid temperatures above 75°C.
Material to avoid:	Oxidising agents and alkaline metals. Corrosive to metals such as iron, aluminium and copper. Reaction with bases causes evolution of ethylene gas - Flammable.
Hazardous decomposition products:	Oxides of carbon, oxides of phosphorus, hydrogen chloride.
Hazardous polymerization:	Will not occur.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Toxicity data:

Acute Oral Toxicity:	LD <sub>50</sub> (rat) 4229mg/kg.
Acute Inhalation Toxicity:	LC <sub>50</sub> (rat) >5.37mg/L, 4hr.
Acute Dermal Toxicity:	LD <sub>50</sub> (rabbit) 5730mg/kg.
Skin and eyes irritation:	Moderate to highly irritating to eyes, irritating to skin (rabbit).
Sensitisation:	Non-sensitising (guinea pig).

## SECTION 12 – ECOLOGICAL INFORMATION

### Ecotoxicity:

Fish LC<sub>50</sub> 720mg/L (96h) rainbow trout.  
Bird Acute oral LD<sub>50</sub> 1072mg/kg (bobwhite quail).  
Daphnia EC<sub>50</sub> 577mg/L (48h).  
Earthworm - nontoxic.

### Environmental risk phrases:

Harmful to aquatic life with long lasting effects. Very toxic to the soil environment.

### SECTION 13 – DISPOSAL CONSIDERATIONS

Use as directed. Only dispose of concentrated product at an approved landfill or other approved facility. Triple rinse container into spray tank. Recycle if possible (e.g. Agrecovery), otherwise puncture, crush and bury at an approved landfill.

### SECTION 14 – TRANSPORT INFORMATION

<b>UN Number:</b>	3265
<b>DG Class and Subsidiary Group:</b>	8
<b>Proper shipping name:</b>	Corrosive Liquid, Acidic, NOS
<b>Packing group:</b>	III
<b>HAZCHEM code:</b>	2X
<b>Special precautions:</b>	Do not carry more than 1L on a passenger service vehicle.

### SECTION 15 – REGULATORY INFORMATION

**HSNO Approval Number:** HSR000804  
**HSNO Controls (inc. Tracking and Record Keeping):**  
See <http://www.epa.govt.nz> for controls.  
**ACVM Registration:** P8926  
**ACVM Controls:**  
See [www.footsafety.govt.nz](http://www.footsafety.govt.nz) for registration conditions.

### SECTION 16 – OTHER INFORMATION

**This MSDS contains only safety-related information. For other data see product literature.**

<b>Contact Points:</b>		
Police, Ambulance and Fire Service:	Dial	111
National Poisons Information Centre:	Dial	0800 POISON (0800 764 766)
Hazardous Substances Emergency:	Dial	0800 Chemcall (0800 243 622)