

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name	Ethephon 480 Growth Regulator
Company Name	Kenso Corporation (M) Sdn Bhd
Address	2 Bond Crescent, Forrest Hill, Auckland 0620 New Zealand
Telephone	0800 536 766
Hazardous Substances Emergency Telephone	0800 CHEMCALL (0800 243 622) (24 hours)
National Poisons Centre Use	0800 POISON (0800 764 766) (24 hours) 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 Pictograms	
Hazard Classification Priority Identifier	6.1E, 6.9B, 8.2C, 8.3A, 9.1C, 9.2A HARMFUL KEEP OUT OF REACH OF CHILDREN
Secondary Identifier	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 No	Proportion
Chlorethephon	16672-87-0	48% w/v
Other inert ingredients	secret	To 100% w/v

SECTION 4 – FIRST AID MEASURES

Ingestion	If swallowed, do not induce vomiting; seek medical advice immediately.
Eye	Flush eyes immediately with plenty of fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. However, if irritation persists, seek immediate medical advice.
Skin	Remove contaminated clothing, wash skin with plenty of soap and water. See a doctor if any signs or symptoms described in this document occur. Discard contaminated non-waterproof shoes and boots. Thoroughly launder contaminated clothing before re-wearing.
Inhalation	Remove to fresh air until recovered. See a doctor if discomfort or irritation continues.
Advice to Doctor	Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard	None
HAZCHEM Code	2X
IER Guide No	36
Extinguishing Media	Carbon dioxide, dry chemical, fog.
Fire Fighting Instructions	Evacuate personnel to a safe area. Always wear positive-pressure self-contained breathing apparatus and full protective clothing. Do not allow water from fire-fighting to enter water supplies or drainage systems.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear chemical resistant: coveralls waterproof gloves and footwear, safety goggles or face shield.
Spillage	Avoid contact with skin and eyes.. Keep out animals and unprotected persons. Do NOT allowed spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways. In the case of spillage, contain and absorb spilled material with absorbent material such as sand, clay or soil. Vacuum, shovel or pump waste into a containment drum. To decontaminate spill area, tools and equipment, wash with a suitable solution (i.e., detergent, bleach or alkaline cleaners/detergents) and add the solution to the drum/s of wastes already collected. Label for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local Authorities or at an approved hazardous substances waste management facility.

SECTION 7 – HANDLING AND STORAGE

Storage	Keep out of reach of children. Store in original container, tightly closed, away from human and animal foodstuffs, medicines and remedies, seeds and fertilisers. Segregate from incompatible substances (see section 10 below). Store in a cool, dry, well ventilated place and protect from sunlight.
Handling	When mixing or applying, avoid contact with skin and eyes. Wear chemical resistant protective clothing, gloves and goggles. Do not inhale spray or spray mists. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work. Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from human and animal foods/feeds, seeds, fertilisers and other incompatible hazardous substances.
Certified Handler Tracking (Record Keeping)	Not required. Not required.
Additional Requirements	All aspects of storage, handling, use, disposal and record keeping must be in accordance with NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls	Not applicable.
Personal Protection	When preparing and applying spray solution, wear chemical resistant protective clothing including: coveralls, gloves and goggles or face-shield. Avoid contact with eyes and skin. Do not inhale spray mist. If inhalation of sprays mists is likely wear respiratory protection to a minimum of Organic Vapour specification. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, protective equipment and contaminated clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Colour	Colourless to pale yellow
Odour	Characteristic
pH	0.7-2.0
Specific gravity	1.21
Flash point (°C)	NA
Flammability Limits	Non flammable
Miscibility	Soluble
Oxidising properties	Not oxidising
Explosive properties	Not explosive

SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Incompatibility	Strong oxidising agents.
Decomposition	Hazardous polymerization is not possible.

Dangerous Reactions Not known.

SECTION 11 – TOXICOLOGICAL INFORMATION

This section describes effects which could occur if this product is not handled in accordance with this data sheet.

Acute Toxicity (on active ingredient)	Acute Oral LD ₅₀ (rats) 4229 mg/kg Acute Dermal LD ₅₀ (rats) 5730 mg/kg Acute inhalation LC ₅₀ (rat): > 5.37 mg/l
Skin Irritation	Irritant
Eye Irritation	Irritant
Sensitisation Effects	Not a sensitizer
Chronic (on active ingredient)	Not available

SECTION 12 – ECOTOXICITY INFORMATION

This section describes effects which could occur if this material is not handled in accordance with this data sheet.

The following information is presented in respect of the active ingredient:

Ecotoxic Effects (on active ingredient)	Acute toxicity to fish: LC ₅₀ (96 h) for rainbow trout 720 mg/L LC ₅₀ (96 h) for bobwhite quail 1072 mg/L EC ₅₀ (48 h) for daphnia 577 mg/L
--	--

SECTION 13 – DISPOSAL CONSIDERATIONS

Product	Dispose of this product only by using according to the label, or at an approved landfill or other approved waste management facility.
Container	Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

SECTION 14 – TRANSPORT INFORMATION

Dangerous Goods	
UN Number	3265
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, N.O.S.
Class	8
Subsidiary Class	None
Packaging Group	III
Additional Information	MARINE POLLUTANT
MTQ (Non-Commercial)	250 L
Special precautions	Do not carry more than 1L on a passengers service vehicle

SECTION 15 – REGULATORY INFORMATION

HSNO Approval No	HSR000804
ACVM Approval No	P8926

SECTION 16 – OTHER INFORMATION

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

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