

## Ethin™

### Section 1: Identification of the Substance or Mixture and of the Supplier

<b>Product name:</b>	Ethin
<b>Recommended use:</b>	Plant growth regulator for thinning or ripening various crops
<b>Company details:</b>	GroChem (AgriNova New Zealand Limited) 15 Sunlight Grove Porirua New Zealand
<b>Telephone:</b>	+64 4 237 0905
<b>Email:</b>	grochem@grochem.co.nz
<b>Emergency telephone:</b>	New Zealand 0800 CHEMCALL – 24 hours (0800 243 6225)  Australia 1800 127 406 Other locations +64 4 917 9888  or The National Poisons Centre 0800 POISON (0800 764 766)
<b>Date of preparation:</b>	14 August 2017

### Section 2: Hazards Identification

<b>Hazard classification (Transport):</b>	Class 8 - Corrosive.
<b>Hazardous substances (HSNO):</b>	6.1E (WARNING: May be harmful if swallowed, inhaled or absorbed through the skin) 6.9B (WARNING: May cause organ damage through prolonged or repeated exposure) 8.2C (DANGER: Causes severe skin burns and eye damage) 8.3A (DANGER: Causes serious eye damage) 9.1C (Harmful to aquatic life with long lasting effects) 9.2A (WARNING: Very Toxic to the soil environment)



### Section 3: Composition/Information on Ingredients

#### Classification & type:

Material	CAS No.	Proportion (%w)
Chlorethephon	16672-87-0	48%
Other non-hazardous components		to 100%

### Section 4: First Aid Measures

<b>Symptoms of exposure:</b>	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 serious eye damage.
If on Skin	Causes severe skin burns.
If Inhaled	May cause irritation to airways and lungs.
<b>First aid actions:</b>	Immediately call a POISON CENTRE 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 several 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 75degC.
<b>Extinguishing media &amp; methods:</b>	Use media appropriate to flammable material involved.
<b>Recommended protective clothing:</b>	Fire-fighters to wear 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 breath mist/spray.
<b>Containment and clean up:</b>	Do not allow to enter waterways. Collect spillage. Contain 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

<b>Subsection 1:</b>	<b>Handling</b>
Handling practices	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.
<b>Subsection 2:</b>	<b>Storage</b>
Site requirements	Store locked up in a cool well ventilated area away from foodstuffs.
Packaging	UN packing group III.

## Section 8: Exposure Controls/Personal Protection

<b>Subsection 1:</b>	<b>Workplace Exposure Guidelines (may also be considered in section 2)</b>
Workplace exposure standards	No exposure standards have been set for this substance.
<b>Subsection 2:</b>	<b>Engineering Controls</b>
Exposure control measures	Use in a well ventilated area.
<b>Subsection 3:</b>	<b>Personal Protective Equipment (PPE)</b>
Detail specifications for equipment	Wear suitable gloves (PVC), change gloves immediately after handling product. Wear chemical goggles or face protection. Wear protective clothing.
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

<b>Appearance</b>	Colourless to pale yellow liquid	<b>pH</b>	1 typical
<b>Odour</b>	Characteristic	<b>Boiling point (degC)</b>	>100
<b>Specific gravity (kg/L)</b>	1.21	<b>Freezing point (degC)</b>	Not available
<b>Solubility</b>	Infinite in water	<b>Flammability Information</b>	Not flammable

## Section 10: Stability and Reactivity

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

## Section 11: Toxicological Information

<b>Data and interpretation:</b>	Acute Oral Toxicity LD50 (rat) 4229mg/kg. Acute Inhalation Toxicity LC50 (rat) >5.37mg/L, 4hr. Acute Dermal Toxicity LD50 (rabbit) 5730mg/kg. Moderate to highly irritating to eyes, irritating to skin (rabbit). Non-sensitising (guinea pig).  See Section 2 for general hazard information.
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## Section 12: Ecological Information

<b>Data organisation:</b>	Fish LC50 720mg/L (96h) rainbow trout. Bird Acute oral LD50 1072mg/kg (bobwhite quail). Daphnia EC50 577mg/L (48h). Earthworm - nontoxic.
<b>Environmental risk phrases:</b>	Harmful to aquatic life with long lasting effects. Very toxic to the soil environment.

## Section 13: Disposal Considerations

<b>Product disposal:</b>	Use as directed. Only dispose of concentrated product at an approved landfill or other approved facility.
<b>Container disposal:</b>	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**

**Regulatory status:** Approved under the HSNO Act 1996, HSR000804. See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.  
Registered pursuant to the ACVM Act 1997, No P7665. See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

**HSNO Trigger Quantities:**

Approved Handler Test Certificate	All quantities
Tracking	Not required
SDS	0.1L
Signage	100L
Emergency plan	1000L
Bunding:	1000L

**Section 16: Other Information**

**Revision due:** 14 August 2022.

**Additional information:** Directions for use are found on the product label.

**Glossary:**

ACVM	Agricultural Compounds and Veterinary Medicines (in relation to Group or Act 1997)
CAS	Chemical Abstract Services Number, used to uniquely identify chemical compounds
EC50	Half maximal effective concentration
EPA	Environmental Protection Agency
HSNO	Hazardous Substances and New Organisms (legislation 1996)
LC50	Lethal Concentration fatal to 50% of test animals/organisms
LD50	Lethal Dose fatal to 50% of test animals/organisms
PPE	Personal Protective Equipment

This SDS summarises our best knowledge of the health and safety hazard information available for this product and how to safely handle and use it. Since the use of this information and the conditions of the use of this product are not under the control of GroChem, it is the user's responsibility to determine conditions of safe use of the product.