

Thin-it™

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

Product name:	Thin-it
Recommended use:	Fertiliser and fruit thinning
Company details:	Grochem (AgriNova New Zealand Limited) 15 Sunlight Grove Porirua New Zealand
Telephone:	+64 4 237 0905
Email:	grochem@grochem.co.nz
Emergency telephone:	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)
Date of preparation:	12 June 2013

Section 2: Hazards Identification

Hazard classification (Transport):	Not a Dangerous Good for transport
Hazardous substances (HSNO):	6.1E (WARNING: May be harmful in contact with skin or if swallowed) 6.3B (WARNING: Causes mild skin irritation) 6.4A (WARNING: Causes serious eye irritation) 9.1D (Harmful to aquatic life)



Section 3: Composition/Information on Ingredients

Classification & type:

Material	CAS No.	Proportion (%w)
Ammonium Thiosulphate	7783-18-8	>60
Ammonium Hydroxide		<1.5
Other non-hazardous components		to 100

Section 4: First Aid Measures

Symptoms of exposure:

If Swallowed:	Large amounts taken by mouth may have serious effects from ammonia. Small repeated doses by mouth may cause headaches and mental impairment.
If in Eyes:	Causes serious eye irritation.
If on Skin:	May cause irritation or sensitisation on allergic persons.
If Inhaled:	May cause respiratory tract irritation.

First aid actions:

If Swallowed:	Call a POISON CENTRE or Doctor if you feel unwell. Do Not induce vomiting. Obtain emergency medical attention.
If in Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
If on Skin:	Wash with soap and water. If skin irritation occurs, get medical advice/attention.
If Inhaled:	Move patient to fresh air and sit in a position comfortable for breathing.

Workplace facilities:

An eyewash, safety shower and general hygiene facilities should be available.

Notes for medical personnel:

Treat symptomatically.

Section 5: Fire Fighting Measures

Type of hazard

Material is not flammable.
 Risks associated to sulphur dioxide: toxic gas by inhalation, heavier than air. It can accumulate itself in closed areas and particularly at soil level or below it. In high concentrations it is corrosive for eyes, respiratory system and skin.
 Risks associated to ammonia : toxic gas by inhalation - flammable and heavier than air. In high concentrations, it is corrosive for eyes and causes bronchospasmus, pulmonary oedema and respiratory failure.

HAZCHEM code:

Not applicable

Combustion products:

Ammonia and sulphur dioxide.

Extinguishing media & methods:

Use only water. Use fine spray only, do not use water jet.

Recommended protective clothing:

Fire-fighters to wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal protection:	See Section 8.3 for appropriate PPE. Take particular care if product has been subjected to heat.
Containment and clean up:	Small spills - rinse with water and treat the contaminated water, oxidising it with hydrogen peroxide and neutralising it with soda or lime. Large spills - stem with sand or soil and collect mechanically into suitable containers.
Special requirements:	See Section 13 for instructions for the disposal of waste/contaminated material.

Section 7: Handling and Storage

Subsection 1:	Handling Wear appropriate PPE as detailed in Section 8.3. Avoid breathing fumes by using in a well ventilated area or using a facemask which filters ammonia. Wash hands and skin thoroughly after handling.
Subsection 2:	Storage Store in a cool area. Prevent from heating, which could cause ammonia release (in this case, the use of a specific filter mask is recommended). Store in a cool and well-ventilated place. DO NOT store near oxidants, acids or alkalis. Keep containers away from direct sunlight. Store in plastic.

Section 8: Exposure Controls/Personal Protection

Subsection 1:	Workplace Exposure Guidelines (may also be considered in section 2)
Workplace exposure standards	No exposure standards have been set for this substance.
Subsection 2:	Engineering Controls
Exposure control measures	Use in a well ventilated area. Avoid breathing spray.
Subsection 3:	Personal Protective Equipment (PPE)
Detail specifications for equipment	Wear gloves and eye/face protection. DO NOT wear contact lenses. Wear respirator if there is a danger of breathing spray.
General hygiene	Wash hands and exposed skin after work and before meals.

Section 9: Physical and Chemical Properties

Appearance	Clear colourless liquid	pH	8-9
Odour	Amine	Boiling point (degC)	Not available
Specific gravity (kg/L)	1.32	Freezing point (degC)	Not available
Solubility	Infinite in water	Flashpoint (degC)	Not flammable

Section 10: Stability and Reactivity

Stability of substance:	Stable when stored appropriately. Unstable when heated.
Conditions to avoid:	Avoid heating the product.
Material to avoid:	Avoid contact with acids, alkalis and oxidising agents.
Hazardous decomposition products:	Ammonia and sulphur dioxide are released when heated/burnt.
Hazardous polymerization:	Will not occur.

Section 11: Toxicological Information

Data and Interpretation:	LD50 Oral (rat) is 1,950-2,890 mg/kg (ammonium thiosulphate solid); LC50 inhalation (rat, mouse) 4hr >2,260 mg/m ³ (ammonium thiosulphate solid), See Section 2 for general hazard information.
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Section 12: Ecological Information

Potential Environmental Interactions:	
Data organisation:	Slightly toxic to aquatic organisms. Can cause oxygen deprivation and ammonia increase. May promote algal growth in water systems. LC50 (fish) 48hr >48.6 mg total NH ₃ /L (ammonium thiosulphate)
Environmental risk phrases	Avoid contamination of waterways. Do Not apply directly onto or into water.

Section 13: Disposal Considerations

Product disposal:	Use in accordance with label instruction. If excess to requirements oxidise with hydrogen peroxide and neutralise it with soda or lime. Inorganic product not to be disposed of through biological treatment systems.
Container disposal:	Triple rinse container into spray tank. Recycle if possible (eg Agrecovery), otherwise puncture, crush and bury at an approved landfill.

Section 14: Transport Information

UN Number:	Not assigned
DG Class and Subsidiary Group:	Not applicable
Proper shipping name:	Not applicable
Packing group:	Not applicable
HAZCHEM code:	Not applicable
Special precautions:	Do Not carry more than 1L on a Passenger Service Vehicle.

Section 15: Regulatory Information

Regulatory status:

ACVM Registered pursuant to the ACVM Act 1997, No. P7076
See www.foodsafety.govt.nz for registration conditions.

HSNO Approved Pursuant to the HSNO Act 1996, Number HSR03037
See www.epa.govt.nz for approval conditions.

HSNO Controls:

Trigger quantities for this substance:

SDS must be available for: 50 L
Signage: 10000 L
Emergency plan: 10000 L
Bunding: 10000 L

APVMA

Thin-it is approved by the APVMA Approval No: 58081/20-1000/0506

Poison Schedule

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

AICS

All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

Section 16: Other Information

Revision due: 12 June 2018

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)
APVMA Australian Pesticides and Veterinary Medicines Authority
CAS Chemical Abstract Services Number, used to uniquely identify chemical compounds
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.