

Ammonium Sulphate

1. Identification of the substance/mixture and supplier

Product Name:	Ammonium Sulphate
Other names	Diammonium Sulphate, Sulphuric Acid Diammonium Salt
Recommended Uses	Fertilizers, water treatment, fermentation, fireproofing compositions, viscose rayon, tanning, food additive.
Emergency Telephone	0800 CHEMCALL (24 hours) 0800 243 622

2. Hazards Identification

Dangerous Goods	Not classified as a Dangerous Good according to NZS 5433:1999 Transport of Dangerous Goods on Land
Hazardous Goods	Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.
GHS Classifications	Acute oral, dermal, and inhalation toxicity Category 4 Designed for Biocidal Action Hazardous to Terrestrial Invertebrates Reproductive toxicity Category 1 Specific target organ toxicity (repeated exposure) Category 1 Hazardous to soil organisms Hazardous to the aquatic environment acute Category 1
Hazard Statements	Harmful if swallowed, inhaled or in contact with skin. Harmful to aquatic life and terrestrial vertebrates. Precautionary Statements Keep out of reach of children. Read label before use. Wear protective gloves/clothing. Avoid breathing dust. Use outdoors or in well ventilated place. Do not eat, drink or smoke when using this product. Wash hands and exposed skin thoroughly after handling. Avoid release to the environment.

3. Composition/Information on Ingredients

Contents	CAS Number	Proportion
Ammonium Sulphate	7783-20-2	>99.9%

Impurities	<1%
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4. First Aid Measures

For advice, contact National Poisons Information Centre (Phone 0800 764 766) or a doctor. Have product container or label at hand.

- Swallowed** Do NOT induce vomiting. Rinse mouth with water. Give water to drink to achieve dilution. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Eye Contact** Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. If eye irritation persists get medical advice/attention.
- Skin Contact** Wash with plenty of soap and water. Remove/take off immediately all contaminated clothing and wash before reuse. Call a Poison Centre or doctor/physician if you feel unwell.
- Inhaled** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Advice to Doctor** Treat symptomatically based on individual reactions of patient.

5. Fire-fighting Measures

- Specific Hazard** Non-combustible material. This substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.
- Suitable Extinguishing Media:** This product is non-combustible, if material is involved in fire use. Water fog or water spray, foam, dry agent (carbon dioxide, dry chemical powder) powder)
- Fire-fighting advice** Decomposes on heating emitting toxic fumes including those of ammonia and oxides of sulphur. If safe to do so, remove containers from path of fire. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk to exposure to products of decomposition.

6. Accidental Release Measures

Avoid breathing in dust. Work up wind or increase ventilation. Wear protective equipment to prevent skin and eye contact and breathing in dust. Sweep up, avoiding generation of dust. Collect and seal in properly labelled containers or drums for safe disposal. Wash area down with excess water. Do not wash untreated material down the drain or sewer

7. Handling and Storage

Handling advice	Before use carefully read product label. Avoid skin and eye contact and breathing in dust. Wear protective clothing impervious gloves and safety glasses when handling. DO NOT eat drink or smoke when handling. Always wash hands with soap and water after use.
Storage advice	Store in a cool, well ventilated place out of direct sunlight. Store away from strong oxidising agents. Keep out of reach of children. Keep containers closed when not in use.

8. Exposure Controls/Personal Protection

Workplace Exposure Guidelines

No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH).

However, Workplace Exposure Standard(s) for particulates:

Particulates not otherwise classified: WES-TWA 10mg/m³ Inspirable dust
3mg/m³ Respirable dust

As published by the New Zealand Occupational Safety and Health Service (OSH).

WES-TWA (Workplace Exposure Standard – Time Weighted Average) – The eight hour, time weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable.

These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering Controls

Ensure ventilation is adequate to maintain air concentrations below exposure limits. Use exhaust ventilation or wear a dust mask during use. Avoid generating and breathing in dusts. Keep containers closed when not in use.

Personal Protective Equipment

Wear overalls, chemical goggles and PVC or rubber gloves. Avoid generating and inhaling dusts. If dust exists, wear dust mask / respirator meeting the requirements of AS/ NZS 1715 and AS/ NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. Physical and Chemical properties

Appearance	Off-White Powder
Odour	Faint ammonical
Solubility	Soluble in water 10g/l at 25°C)
Specific Gravity	1.77 at 25°C
Flash Point (°C)	Not applicable
pH	5.5 (1% aqueous solution at 25°C)
Melting Point	513 °C
Vapour Pressure	Not applicable

10. Stability and Reactivity

Stability	Stable under ambient conditions.
Reactivity	Highly reactive with strong oxidizing agents (potassium nitrate, ammonium nitrate, potassium chlorate, potassium nitrite, sodium hypochlorite) Reacts with alkali to release ammonia.

11. Toxicological information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Swallowed	No adverse effects expected, however large amounts may cause diarrhoea, nausea and vomiting.
Eye Contact	An eye irritant. Exposure to dust may cause discomfort due to particle nature.
Skin Contact	Contact with skin may result in irritation.
Inhaled	Breathing in dust may result in respiratory irritation
Long Term Effects	Repeated or prolonged skin contact may cause dermatitis.
Toxicological Data	Acute Oral LD ₅₀ (ingestion) (rat) : 2840 mg/kg Eyes: Moderate irritant (rat)+

12. Ecotoxicological information

Avoid contaminating waterways. Slightly harmful to aquatic life.

Aquatic toxicity	No data available
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13. Disposal

Recycle wherever possible. Whatever cannot be saved for recovery or recycling should be sent to an approved waste disposal contractor for disposal in an approved waste facility. Normally product is suitable for disposal at an approved landfill site. Processing, use or contamination of this product may change the waste management options. Care should be taken to ensure compliance with national and local regulations. This product is NOT for disposal via municipal sewers, drains, natural streams or rivers.

Special Precautions: Emptied containers retain product residue and may therefore present hazards. Empty bags should be taken for disposal through a suitably qualified or licensed contractor. Observe all safeguards on label and in this SDS until container is cleaned or destroyed. Decontaminate empty containers with plenty of water. Dispose of washed

containers in accordance with local authority requirements (normally at an approved landfill site).

14. Transport information

Road and Rail Transport

Not Classified as a Dangerous Good according to NZS 5433:1999 Transport of Dangerous Goods on Land.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. Regulatory Information

ERMA (NZ) Approval code

HSR002770

GHS Classifications

Acute oral, dermal, and inhalation toxicity Category 4
Designed for Biocidal Action
Hazardous to Terrestrial Invertebrates
Eye irritation Category 2
Reproductive toxicity Category 1
Specific target organ toxicity (repeated exposure) Category 1
Hazardous to soil organisms
Hazardous to the aquatic environment acute Category 1

16. Other information

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES.

The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranties expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this information or the product, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.