

Ammonium Sulphate (Prill or Granular)

1: PRODUCT NAME, SUPPLIER INFORMATION AND EMERGENCY CONTACTS

Product Name: Ammonium Sulphate

Other names: GAS, SAS, Ammonium sulfate, Sulphuric acid diammonium salt, Sulphate of ammonia

Chemical formula: $(\text{NH}_4)_2\text{SO}_4$

Recommended Use: Fertiliser

Restrictions of Use: Refer to Section 15

Company: Fert Wholesale Direct Ltd

Address: 205 Main Street, Mataura 9712

Contact Number: 021 0235 6491

National Poisons Information Centre: 0800 POISON (0800 764 766)

Emergency Telephone Number: 0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)

Transport Emergency Phone: 111- tell operator what service is needed: Fire, Ambulance, Police

2: HAZARD IDENTIFICATION

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: Fertilisers (subsidiary) HSR002571
HSR002770 – Ammonium Sulphate



WARNING

Hazard Classifications: 6.1D (oral), 9.1D, 9.3C

Priority Identifiers:

6.1 (oral) = Harmful if swallowed. Hazard Code: H302. GHS Category: Acute Tox. 4.

9.1D = Harmful to aquatic life. Hazard Code: H402. GHS Category: Aquatic Chronic 4.

9.3C = Harmful to terrestrial vertebrates. Hazard Code: H433. GHS Category - .

Prevention Code:	Prevention Statement:
P102	Keep out of reach of children
P103	Read label before use.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.

Response Code:

P101 – If medical advice is needed, have product container or label at hand.

P330 – Rinse mouth.

P301 + P312 – IF SWALLOWED: call a POISON CENTRE or doctor/physician if you feel unwell.

Storage Code: None allocated.

Disposal Code: P501 – dispose of according to Local Regulations or Authorities.

3: COMPOSITION INFORMATION

Ammonium Sulphate – 100% CAS No 7783-20-2

4: FIRST AID MEASURES

Inhalation: Remove patient to fresh air and keep at rest in a position comfortable for breathing. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance if needed.

Ingestion: Never give anything by mouth to an unconscious person. If swallowed rinse mouth seek medical advice. DO NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin: Remove contaminated clothing then wash affected area thoroughly with soap and water. Seek medical attention if needed.

Eyes: Flush with plenty of water for several minutes, holding eyelids open if necessary. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical advice.

First Aid Measures: Consult the national Poisons Information Centre on 0800 764 766.

Symptoms and effects, both acute and delayed:

Inhalation: Not triggered however over exposure may cause mucous membrane irritation and coughing.

Ingestion: Harmful if swallowed. Ingestion of large quantities may lead to nausea, vomiting, diarrhea, thirst.

Skin: Not applicable, however, prolonged and repeated skin exposure may result in irritation and skin rash.

Eyes: Not triggered, however, direct contact may result in lachrymation (tears), pain, redness and conjunctivitis.

Notes to Doctor: Treat symptomatically.

5: FIRE FIGHTING MEASURES

Flash Point: N/A (Non-flammable).

Combustion Products: Non-combustible. Decomposes on heating to form ammonia, nitrogen oxides and sulphur oxides.

Extinguishing Media: Based on surrounding materials.

Protective Equipment: Breathing apparatus, goggles and protective gloves.

HAZCHEM Code: None allocated.

6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area. Contain and sweep up all spilled product and place in suitable container for disposal. Avoid generating dust. Reuse or recycle where possible. Dispose of according to Section 13.

Environmental Precaution: Prevent from entering drains, waterways or sewers.

7: HANDLING AND STORAGE

Handling: Read label before use. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid generating dusts, do not breathe dusts. Avoid release to the environment.

Use appropriate rated and designed lifting equipment when handling bulk bags.

Storage: Keep out of reach of children. Store in dry, cool ventilated area. Store away from incompatible materials listed in Section 10.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits: Workplace Exposure Standards (WES) (for guidance only):

Inspirable dust 10mg/m³, Respirable dust 3mg/m³

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2019 11TH EDITION.

Protective Equipment: Overalls, safety glasses and gloves. If dust is present wear dust mask and goggles. Eye wash facilities should be available.

Engineering Controls: Handle in well-ventilated area. If dust generated use local extraction to control. Avoid inhalation of dust.

Hygiene Precautions: Remove protective clothing and wash hands and face before meals and after work.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Granular/Crystalline

Colour: White to grey/brown or clear

Odour: Odourless

Odour Threshold: Not available

pH: 5-6 (50g/l in water at 20°C)

Boiling Point: Not available

Melting Point: 280°C (decomposes)

Freezing Point: Not available

Flash Point: Not available

Flammability: Non-Flammable

Upper & Lower Explosive Limits: Not available

Vapour Pressure: Not available

Vapour Density: Not available

Specific Gravity: 1.77g/cm³

Bulk Density: 1050kg/m³

Water Solubility: 744g/l at 20°C

Partition Coefficient: Not available

Auto-ignition Temperature: Not available

Decomposition Temperature: Not available

Kinematic Viscosity: Not available

Particle Characteristics: Not available

10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Not available.

Conditions to Avoid: Strong heat, moisture.

Incompatible Materials: Oxidisers.

Hazardous Decomposition: Decomposes on heating to form ammonia, nitrogen oxides and sulphur oxides.

11: TOXICOLOGICAL INFORMATION

Ingestion: Harmful if swallowed. Ingestion of large quantities may lead to nausea, vomiting, diarrhea, thirst. LD50 (oral, rat) 2840 mg/kg.

Inhalation: Not triggered, however, elevated exposure may result in mucous membrane irritation and coughing (nose & throat).

Skin: Prolonged and repeated skin exposure/contact may result in irritation, itching and possible skin rash.

Eye: Not triggered, however, direct contact may cause lachrymation (tears), irritation, pain, redness and conjunctivitis.

Dermal: Not applicable.

Chronic Effects: Not applicable.

12: ECOLOGICAL INFORMATION

HSNO Classes:

9.1D = harmful to aquatic life.

9.3C = harmful to terrestrial vertebrates.

Ecotoxicity: Avoid unintended release into streams and waterways.

Individual component information (please refer to www.epa.govt.nz for full details)

Ammonium Sulphate (CAS No 7783-20-2):

Route	Species	Duration	Value LC50/EC50
Acute aquatic, fish	Catla catla	96 hr	48 mg/L
Acute aquatic, Crustacean	Crangon crangon (Crustacea)	96 hr	81-130 mg/L
Bioaccumulative	No		
Rapidly Degradable	Yes		

13: DISPOSAL INFORMATION

Product Disposal: Reuse or recycle where possible. If practicable apply as a fertiliser at recommended rates to appropriate land. Collection into sealable containers and dispose of in an appropriate land fill. Observe any local authority restrictions that may apply.

Container Disposal: Rinse containers thoroughly prior to reuse. Otherwise render unusable and dispose of as waste.

Precautions or methods to avoid: Unacceptable disposal methods include, but are not limited to, burning, burying and dumping. Do not allow to enter waterways.

Bulk Bag Disposal: Dispose of all bags in the appropriate manner.

14: TRANSPORT INFORMATION

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012.

15: REGULATORY INFORMATION

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code:

Fertilisers (subsidiary) – HSR002571

HSR002770 (Ammonium Sulphate)

HSNO Classification: 6.1D (oral), 9.1D, 9.3C

HSW (HS) Regulations 2017 and EPA Notices:

Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000kg (9.3C)
Emergency Response Plan	1000kg (6.1D)
Secondary Containment	1000kg (6.1D)
Restriction of Use	Only use for the intended purpose

16: OTHER INFORMATION

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace.

Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

This substance is approved under HSNO for use as a fertiliser. All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the date given in Section 16. No liability is assumed for any damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

SDS Issued: March 2022