Safety Data Sheet



FLOWFERT N+S

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	Flowfert N + S
Product Code:	7502000
Chemical Formula:	N/A
Recommended Use:	Liquid Fertiliser Solution
Restrictions of Use:	Refer to Section 15
Company Identification:	Ravensdown Limited
Address:	292 Main South Road, Hornby, Christchurch, 8042 PO Box 1049, Christchurch 8011
Customer Centre:	0800 100 123
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Phone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency Phone Number:	111 - tell operator what service is needed: Fire, Ambulance or Police
Date of SDS Preparation	17 March 2025 v2

Section 2: HAZARD IDENTIFICATION

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No:	Fertilisers (subsidiary) – HSR002571
Pictograms:	<u>•</u>
Signal Word:	Warning

GHS Classification and Category	Hazard Code	Hazard Statement	
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.	

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.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P330	Rinse mouth.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Storage Co	ode	Storage Statement
None allo	ated	

Product Name: Ammonium Sulphate SDS Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 17 March 2025 Tel: 64 9 475 5240 www.techcomp.co.nz

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Ammonium Sulphate	7783-20-2	35.7%
Water	7732-18-5	To 100

Section 4: FIRST AID MEASURES

Routes of Exposure:	
If in eyes:	Flush with plenty of water for several minutes, holding eyelids open if necessary. Remove
	contact lenses if present and easy to do. Seek medical advice.
If on skin:	Wash affected area thoroughly with soap and water. Seek medical attention if needed.
If ingested:	Never give anything by mouth to an unconscious person. If swallowed, rinse mouth. Call a
	POISON CENTER or doctor/physician if you feel unwell.
If inhaled:	Remove patient to fresh air. Keep at rest in comfortable position for breathing. If
	breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek
	medical assistance if needed.
Most important symptoms and	effects, both acute and delayed
Symptoms:	Harmful if swallowed.
Notes to Doctor:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Hazard Type	Non-Flammable
Hazards from combustion	Non-combustible. Decomposes on heating to form ammonia, nitrogen oxides and sulphur
products	oxides
Suitable Extinguishing media	Based on surrounding materials.
Precautions for firefighters	Breathing apparatus, goggles, and protective gloves.
and special protective	
clothing	
HAZCHEM CODE	None Allocated

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal	precautions.	protective	equipment	and emer	gency procedures:
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Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area.

Environmental precautions:

Avoid unintended release of excessive amounts into waterways or sewers.

Methods and material for containment and cleaning up:

Contain spill. Collect and place in sealable containers. Reuse or recycle where possible. Dispose of according to Section 13.

Section 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 release to the environment.
Storage:	Keep out of reach of children. Store away from incompatible materials listed in Section 10. Store in a cool, dry area.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

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TWA STEL
Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

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 FEB 2025 15TH EDITION.

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

Personal Protection Equipment:		
Eyes:	Wear safety goggles. Eye wash facilities should be available.	
Skin/Hands:	Wear protective gloves and overalls.	
Respiratory:	If dust is present wear a dust mask.	
General:	Remove protective clothing and wash hands and face before meals and after work.	

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Clear
Odour	Odourless
Odour Threshold	Not available
рН	5-6
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Non-Flammable
Upper and Lower Explosive	Not available
Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	1.24 g/cm ³
Bulk Density	1244 kg/m ³
Water Solubility	Very soluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10: STABILITY AND REACTIVITY

Stability of Substance	This product is stable under normal conditions.	
Possibility of hazardous	Not available	
reactions		
Conditions to Avoid	Strong heat.	
Incompatible Materials	Oxidisers.	

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Hazardous Decomposition	No data available.
Products	

Section 11: TOXICOLOGICAL INFORMATION

Acute Effects:

Swallowed	Harmful if swallowed. LD50 (Ammonium Sulphate, oral, rat) 2840 mg/kg
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12: ECOLOGICAL INFORMATION

Not hazardous to the environment.

Product:	
Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in Soil	No data available.
Other adverse effects	None known.

Individual component information:

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		

Section 13: DISPOSAL INFORMATION

Disposal Method:	Collection into sealable containers and dispose of in an appropriate land fill. Reuse or recycle where possible. If practicable apply excess fertiliser at recommended rates to appropriate land. 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.

Section 14: TRANSPORT INFORMATION

This product is **NOT** classified as a Dangerous Good for transport in NZ; NZS 5433:2020

Section 15: REGULATORY INFORMATION

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020	
EPA Approval Code:	Fertilisers (subsidiary) – HSR002571

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HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	10 000kg
Emergency Response Plan	1000kg
Secondary Containment	1000kg
Restriction of Use	Only use for the intended purpose.

Section 16: OTHER INFORMATION

Glossary

EC₅₀ Median effective concentration.
 EEL Environmental Exposure Limit.
 EPA Environmental Protection Authority
 HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC50 Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.

LD₅₀ 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

References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices Feb 2025 15th edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2020
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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 $\label{thm:please contact Ravensdown, if further information is required.}$

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