



SAFETY DATA SHEET

Version 1.0
Issue Date: 27 June 2022

1. Substance and Supplier Identification

Product Name: All Purpose Slow-Release Fertiliser

Supplier: Morton Smith-Dawe Ltd
396 Wigram Road
Halswell
Christchurch, New Zealand
P.O Box 37-139 Halswell, Christchurch

Customer Centre: (03) 322 8117

Recommended Use: Fertiliser

In Case of Emergency Contact:

National Poisons Centre: 0800 POISON (0800 764 766)

Transport Emergency: 111 – Tell operator what service is needed: Fire, Ambulance or Police.

2. Hazard Identification

New Zealand Hazardous Substances Classification:

This product is classified as hazardous according to criteria in the New Zealand Hazardous Substances (Hazard Classifications) Notice 2020.

Refer to Section 15 for HSNO Approval Number.

This product is not a Dangerous Goods for Transport. Refer to Section 14 for details.

Classification and Statements:

GHS Classification: Acute Toxicity, oral, Category 4
Eye Irritation, Category 2
Reproductive Toxicity, Category 2
STOT RE, Category 2
Hazardous to terrestrial vertebrates

HSNO Classification: 6.1D oral, acutely toxic
6.4A eye irritant
6.8B suspected reproductive or developmental toxicant
6.9B harmful to human target organs or systems
Hazardous to terrestrial vertebrates

Labelling Elements:

Hazard Statements:

H302 Harmful if swallowed
H319 Causes serious eye irritation
H361 Suspected of damaging fertility or the unborn child
H373 May cause damage to organs (lungs) through prolonged or repeated exposure via inhalation
Hazardous to terrestrial vertebrates

Signal Word: WARNING

GHS Pictograms:



PREVENTION STATEMENTS:

P102 - Keep out of reach of children.
P202 – Do not handle until all safety precautions have been read and understood.
P260 – Do not breathe dust.
P264 – Wash hands/exposed skin thoroughly after handling.
P270 – Do not eat, drink, or smoke, when using this product.
P273 – Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection/face protection.

RESPONSE STATEMENTS:

P101 – If medical advice is needed, have product container or label at hand.
P301 + P312 + P330 – IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. Rinse mouth.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P308 + P313 – If eye irritation persists or if exposed or concerned: Get medical advice/attention.

STORAGE:

P405 - Store locked up

DISPOSAL

P501 - In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Dispose of via an approved waste disposal contractor. Refer to Section 13 of the SDS.

3. Composition/ Information on Ingredients

Mixture: Fertiliser

Main Component	CAS Number	Concentration (% wt)
Ammonium Nitrate	6484-52-2	15 - <20%
Potassium Nitrate	7757-79-1	12.5 - <15%
Ammonium Sulphate	7783-20-2	10 - <12.5%
Ammonium Phosphate, Monobasic	7722-76-1	5 - <7%
Potassium Phosphate, Monobasic	7778-77-0	5 - <7%
Diammonium Phosphate	7783-28-0	3 - <5%
Calcium Fluoride	7789-75-5	2 - <3%
Sodium Borate, Pentahydrate	12179-04-3	0.1 - <0.2%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First Aid Measures

Workplace Facilities Required:	Eye wash and safety shower facilities are required where bulk quantities are handled or stored.
If Inhaled:	Remove to fresh air. Keep at rest in a position comfortable for breathing. If breathing stops apply artificial respiration. Seek immediate medical attention.
In Contact with Eye:	Hold eyes open, flush continuously with water for at least 15 minutes. Seek medical attention if irritation develops and persists.
In Contact with Skin:	Wash skin with plenty of water, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek medical attention if skin irritation develops and persists.
If Swallowed:	DO NOT INDUCE VOMITING. Rinse mouth. Give small quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration to lungs.
Advice to Doctor:	Treat symptomatically.

5. Fire Fighting Measures

Fire/Explosion Hazard: Product is not flammable or combustible.

Suitable Extinguishing Media:	Use extinguisher suitable for surrounding fire.
Precautions in Connection with Fire:	May give off toxic and/or corrosive fumes in a fire, containing nitrogen, sulphur and phosphorus oxides and hydrogen fluoride
Advice for firefighters:	Wear full firefighting gear and self-contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions:	Avoid contact with skin and eyes. Avoid generating dust. For large spills, emergency responders must use personal protective equipment, including gloves, protective overalls and footwear and safety glasses with side shields or safety goggles. Respiratory protection may be required where there is inadequate ventilation and high dust concentrations. For small spills, wear eye protection and gloves.
Spill Clean-Up Procedure:	Contain the spill. Sweep up spills and place in a suitable, closable chemical waste container. Alternatively, an industrial vacuum cleaner may be used to collect spilled material. Ensure waste container is properly labelled.
Waste Disposal:	Refer to Section 13.
Emergency Preparation:	Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.

7. Handling and Storage

Handling:	Keep out of reach of children. Do not eat, drink, or smoke when using this product. Avoid generating dust. Avoid inhaling product. Use in a well-ventilated area. Avoid contact with skin and eyes. Remove contaminated clothing and wash hands and face before entering eating areas. Launder contaminated clothing separately.
Storage:	Store locked up. Protect packages against physical damage. Ensure any part packages are securely sealed before being stored. Store in a cool, dry, well-ventilated area away from incompatibles (see Section 10). Store in a contained area where any spill cannot be dispersed outside the area. Do not store with food related items.

8. Exposure Controls and Personal Protection

Workplace Exposure Standards NZ:

No Workplace Exposure Standards have been established for this product. A workplace exposure standard has been established for the following ingredients:

Calcium Fluoride: (Fluorides as F) TWA 2.5 mg/m³ (bio: exposure can also be estimated by biological monitoring).

Sodium Borate, pentahydrate: TWA 1 mg/m³

Particulates, not otherwise specified, TWA 10 mg/m³ (inspirable dust), 3 mg/m³ (respirable dust)

Engineering Controls:	Eyewash facilities and safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. If use generates dust, use engineering controls such as local exhaust ventilation to ensure workers are not exposed to levels exceeding the exposure standards.
Personal Protective Equipment:	Avoid inhaling dust. Avoid contact with skin and eyes.
Hand protection:	Wear protective gloves. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.
Skin and body protection:	Use protective clothing. Remove any contaminated clothing to avoid prolonged contact with the skin. Wash work clothes regularly. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.
Eye protection:	Use safety glasses with side shields or safety goggles to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection.
Respiratory protection:	Where there is inadequate ventilation, and use results in the formation of dust, use a respirator. Dust mask rated at least P1 if exposure to dust is low. For higher dust concentrations a P2 mask may be needed. Refer to AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Other information:	PPE selected must be impervious to the substance. Do not eat, smoke, or drink where material is handled, processed, or stored. Wash hands carefully before eating, drinking, or smoking. Handle in accordance with safe industrial hygiene practices.

9. Physical and Chemical Properties

Description:	Solid (prills)	Colour:	Green
Odour:	Odourless	Odour Threshold:	Not determined
pH:	4.5 (10%)	Solubility (water, 25°C):	Soluble
Melting Point:	160°C	Boiling point:	Not determined
Flammability:	Non-flammable	Flash Point (Closed Cup):	Not applicable
UEL/LEL:	Not applicable	Bulk Density:	Not determined
Relative Density:	Not determined	Vapour Density:	Not determined
Vapour pressure (at 25°C):	Not determined	Viscosity:	Not applicable
Decomposition Temp:	Not available	Autoignition Temp:	Not applicable
Octanol/Water Partition Coefficient:	Not applicable	Particle characteristics:	Not available

10. Stability and Reactivity

Stability:	Stable under normal storage conditions.
Reactivity:	Under normal conditions of storage and use, not expected to cause any adverse reactions. Reacts with incompatible substances.
Conditions to Avoid:	Dust formation. Accumulation of large quantities of dust may result in a dust explosion.
Incompatibility:	Incompatible with strong acids, reducing agents, acid chlorides, acid anhydrides, and chloroformates.
Hazardous Decomposition Products:	May form toxic fumes containing hydrogen fluoride and oxides of nitrogen, sulphur, and phosphorus.
Hazardous Polymerisation:	Will not occur.

11. Toxicological Information

Acute Exposure

Acute Toxicity:	LD ₅₀ oral 300 - ≤ 2000 mg/kg LD ₅₀ dermal > 5000 mg/kg LC ₅₀ inhalation > 5 mg/L (dust)
Inhalation:	May cause mechanical irritation if dust is inhaled, resulting in coughing, sneezing.
Ingestion:	Harmful if swallowed. May cause vomiting, diarrhoea, abdominal cramps.
Skin Contact:	Not expected to be a skin irritant but dust may cause mechanical irritation on damp skin.
Eye Contact:	Eye irritant.
Sensitiser:	Not expected to be a respiratory or contact sensitiser.

Chronic Exposure:

Mutagen/Carcinogen/Reproductive Toxicant	Suspected reproductive toxicant. May damage fertility or the unborn child. Not expected to be carcinogenic or mutagenic.
Specific Target Organ Systemic Toxicity:	Harmful to lungs on prolonged or repeated exposure via inhalation. Toxicity data is based on hazardous ingredient information and information in the EPA Chemical Classification and Identification Database and European Chemical Agencies Database.

12. Ecological Information

Ecotoxicity:	Product is not expected to be harmful in the aquatic environment. LD ₅₀ oral >300 - <2000 mg/kg Hazardous in the terrestrial environment. Hazardous to terrestrial vertebrates.
Aquatic toxicity:	LC ₅₀ >100mg/l
Biodegradable:	No data. Not expected to be persistent.
Bioaccumulative:	Not expected to be bioaccumulative.
Mobility:	Product is soluble in water.
Ecotoxicity classification derived from data on ingredients.	

13. Disposal Considerations

Disposal:	Recycle and reuse wherever possible. Dispose of waste product via an approved waste disposal contractor.
Disposal of Packaging:	Dispose of packaging via an approved waste disposal contractor. Consumer packaging may be disposed of via household waste.

14. Transport Information

This product is not classified as a Dangerous Good for transport in accordance with NZS5433:2020, IMDG or IATA.

Ensure transportation methods prevent leakage from packages and collapsing loads.

15. Regulatory Information

Group Standard Allocation:	Fertilisers (Subsidiary Hazard) Group Standard 2020
HSNO Approval Code:	HSR002571
NZ Inventory of Chemicals:	All components are listed in the NZ Inventory of Chemicals

This substance triggers:	Location/Compliance Certificate	N/A
	Certified Handler	N/A
	Emergency Response Plan	1,000kg
	Secondary Containment	N/A
	Signage	10,000kg
This substance is not required to be Tracked. All workplace personnel handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance.		

16. Other Information

The information provided in this Safety Data Sheet relates only to the specific material designated herein. The information contained in this Safety Data Sheet is correct to the best of our knowledge.

This substance is approved under HSNO for use as a fertiliser.

SDS Created: 27 June 2022

Review Date: 27 June 2027

Reason for Revision: Compliance with EPA Hazardous Substances (Safety Data Sheets) Notice 2017. Update of classifications in accordance with EPA Hazardous Substances (Hazard Classifications) Notice 2020.

It is known that people have varying degrees of sensitivity to chemicals therefore this product should be used with caution.

The information compiled in this Safety Data Sheet has been taken from sources believed to be reliable by Morton Smith-Dawe Ltd and to represent the most up-to-date knowledge available at the date given in Section 16.

Morton Smith-Dawe Ltd assumes no liability for any damages related to the use or misuse of this substance.

End of Safety Data Sheet