



SAFETY DATA SHEET

Version 2.0
Issue Date: 29 April 2025

1. Substance and Supplier Identification

Product Name: Superphosphate

Other Names: Single Superphosphate, SSP, Calcium bis(dihydrogen phosphate); Monocalcium phosphate

Supplier: Morton Smith-Dawe Ltd
12 Kairua Road
Hornby
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: Skin Irritation, Category 2
Eye Irritation, Category 2

HSNO Classification: 6.3A skin irritant
6.4A eye irritant

Labelling Elements:

Hazard Statements:

H315 Causes skin irritation
H319 Causes serious eye irritation

Signal Word: WARNING

GHS Pictograms:



PREVENTION STATEMENTS:

P103 – Read carefully and follow all instructions.
P264 - Wash hands, exposed skin, thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.

RESPONSE STATEMENTS:

P302 + P352 – IF ON SKIN: Wash with plenty of water.
P362 + P364 – Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P337 + P313 - If skin irritation occurs or eye irritation persists: Get medical advice/attention.

STORAGE STATEMENTS:

None

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: Calcium Phosphate and other non-hazardous ingredients.

Main Component	CAS Number	Concentration (% wt)
Calcium Phosphate	7758-23-8	40-60 %

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. Seek medical attention if symptoms persist.
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 noxious fumes in a fire containing oxides of phosphorous and sulphur.
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:	Avoid generating dust. Avoid contact with skin and eyes. Do not eat, drink, or smoke, when using this product. Remove contaminated clothing and wash hands and face before entering eating areas.
Storage:	Do not store near to food or feedstuffs. Store in a cool, dry, well-ventilated place.

8. Exposure Controls and Personal Protection

Workplace Exposure Standards NZ:

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:	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 or smoking. Handle in accordance with safe industrial hygiene practices.

9. Physical and Chemical Properties

Description:	Solid granules	Colour:	Grey or brown
Odour:	Odourless	Odour Threshold:	Not applicable
pH:	Not determined	Solubility (water, 25°C):	Partially soluble

Melting Point:	Not determined	Boiling point:	Not determined
Flammability:	Non-flammable	Flash Point (Closed Cup):	Not applicable
UEL/LEL:	Not applicable	Bulk Density:	1150 kg/m ³
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.
Conditions to Avoid:	Dust formation. Accumulation of large quantities of dust may result in a dust explosion.
Incompatibility:	Keep away from strong oxidisers.
Hazardous Decomposition Products:	Oxides of sulphur, and phosphorus.

11. Toxicological Information

Acute Exposure

Acute Toxicity:	LD ₅₀ oral > 2000 mg/kg LD ₅₀ dermal > 5000 mg/kg LC ₅₀ inhalation > 5 mg/L (dust)
Inhalation:	Inhalation of dust can cause coughing and shortness of breath.
Ingestion:	Ingestion of large quantities may cause nausea, and vomiting.
Skin Corrosion/Irritation:	Product is a skin irritant and may cause itching, redness, rash.
Serious Eye Damage/Eye Irritation:	Product is an eye irritant and may cause stinging, redness, weeping.
Respiratory or Contact Sensitiser:	Not expected to be a respiratory or contact sensitiser.

Chronic Exposure:

Mutagen/Carcinogen/Reproductive Toxicant	Not expected to be carcinogenic, mutagenic, or a reproductive or developmental toxicant.
Specific Target Organ Toxicity Single Exposure:	No information available. Not expected to be a specific target organ toxicant by single exposure.

Specific Target Organ Toxicity Repeated Exposure:	No information available. Not expected to be a specific target organ toxicant by repeated exposure.
Aspiration Hazard:	No information available. Not expected to be an aspiration hazard. Toxicity data is based on hazardous ingredient information and information in the EPA Chemical Classification and Identification Database.

12. Ecological Information

Ecotoxicity:	Not expected to be ecotoxic. Avoid losses to the environment wherever possible.
Aquatic toxicity:	LC ₅₀ >100mg/l
Biodegradable:	No data.
Bioaccumulative:	No data.
Mobility in soil:	Product is partially soluble in water.
Other adverse effects:	None known.

Ingredients with ecotoxic classifications: There are no ingredients with ecotoxicity classifications.

Ecotoxicity classification derived from data on ingredients.

13. Disposal Considerations

Disposal:	Recycle where 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	N/A	

Secondary Containment	N/A
Signage	N/A

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:	29 April 2025	Review Date:	29 April 2030
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Supersedes:	4 July 2022
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Reason for Revision: New address details. Update headings and information in Sections 11, 12, & 16.

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.

References:

EPA NZ Chemical Classification and Information Database
EPA Guide: Guide to Classifying Hazardous Substances in New Zealand, Version 1

Summary of Abbreviations: EPA – Environmental Protection Authority
GHS – Global Harmonisation System
CAS – Chemical Abstracts Service
TWA – Time Weighted Average

End of Safety Data Sheet