



MATERIAL SAFETY DATA SHEET

PRODUCT: POTASSIUM SULPHATE

Date of Issue: 16 AUG 2021 **Valid until:** 15 AUG 2026 **GHS Format**

1. IDENTIFICATION OF MATERIAL & SUPPLIER

Product (material) Name: Manutec Potassium Sulphate
Other names: Sulphate of Potash / Dipotassium Salt
Manufacturer's code: MTO0500 (500G)/MBP1104(1KG)/MBP0266(2.5KG)/MBP0404(4KG)
Recommended use: as a soluble Potassium Fertiliser to supplement Potassium to promote flowering and fruiting in plants

Manufacturer/Supplier Information:

Name: MANUTEC PTY LTD
Address: 30 Jonal drive, Cavan, South Australia 5094
Telephone No:+61-8-8260 2277 **Fax:**+61-8-8260 2399
Email: manutec@manutec.com.au

Emergency contact only: Poisons Information Centre (Australia) 131126

2. HAZARDS IDENTIFICATION

Poisons Schedule: **None**

Hazard Classification: NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard Categories: **None**

Pictograms: **None**

Signal Word: **None**

Hazard Statements:

HSNO Classifications Health Hazards
6.3B Substances that are mildly irritating to the skin

Precautionary Statements: **None**

National Transport Commission (Australia) - Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportion
Potassium Sulphate(K ₂ SO ₄)	7778-80-5	99.0 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed

Do not induce vomiting if swallowed. Give large quantities of water through mouth if conscious. If symptoms persist seek medical attention

Eye

Immediately flush eyes with plenty of water for 15 minutes, holding eyelids open. In all cases of eye contamination, it is a sensible precaution to seek medical advice

Skin

Remove contaminated clothing. Wash affected area with plenty of water. Seek medical attention if irritation occurs or persists.

Inhaled

Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention

Advice to Doctor

Treat symptomatically based on judgement of doctor & individual reactions of patient

Medical Conditions Aggravated by Exposure

No information available on medical conditions aggravated by exposure to this product

5. FIRE FIGHTING MEASURES

General Measures

Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.

Flammability Conditions

Product is a non-flammable solid.

Extinguishing Media

Use appropriate media for surrounding fire (water, chemical foam, dry chemical or carbon dioxide). Use water spray to cool structures and containers exposed to fire.

Fire and Explosion Hazard

Product is a non-flammable solid.

Hazardous Products of Combustion

May release sulphur dioxide and sulphur trioxide and potassium oxides when heated in a fire.

Special Fire Fighting Instructions

Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

Personal Protective Equipment

Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

6. ACCIDENTAL RELEASE MEASURES

General Response

Procedure Avoid accidents, clean up immediately. Slippery when spilt. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment.

Clean Up Procedures

Sweep up any spilt material and dispose of in an appropriate container.

Containment

Stop leak if safe to do so. Isolate the danger area.

Decontamination

Flush area with water to remove any residue.

Environmental Precautionary Measures

Do NOT let product reach drains or waterways. If product does enter a waterway in large volumes, advise the Environmental Protection Authority or your local Waste Management.

Evacuation Criteria

Evacuate all unnecessary personnel.

Personal Precautionary Measures Personnel involved in the clean up should wear full protective clothing as listed in section 8.

7. HANDLING AND STORAGE

Handling

Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes. Use proper equipment for lifting and transporting all containers. Avoid situations that could lead to harmful exposure.

Storage

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Store away from heat, moisture and incompatible substances. This product is not Classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

Container

Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

General

ACGIH / TLV = 1mg/m³

OSHA / PEL = 1mg/m³

Exposure Limits

No Data Available

Biological Limits

No information available on biological limit values for this product.

Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Adequate ventilation should be provided so that exposure limits are not exceeded.
Personal Protection Equipment	RESPIRATOR: An effective dust mask, preferably a half face dust / mist respirator, should be worn where dust or mist is present (AS1715/1716).
EYES:	Safety glasses should be worn at all times. Full face shield offers higher degree of protection. Contact lenses should not be worn as they may contribute to eye injury (AS1336/1337).
HANDS:	Gloves should be worn to prevent skin contact (AS2161).
CLOTHING:	Protective clothing or coveralls should be worn to prevent skin contact. Wash contaminated clothing with soap and water, dry thoroughly before reuse. Safety footwear should be worn as needed (AS3765/2210).
Work Hygienic Practices	Good industrial hygiene practices. Emergency shower and eyewash stations should be in reasonable proximity to work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white odourless crystalline powder. Bitter in taste.
Boiling Point:	No data.
Melting Point:	1072 ⁰ C
Vapour Pressure:	Not applicable.
Specific Gravity:	2.66 (water = 1)
Flash Point:	Not applicable.
Solubility in Water:	Soluble – approximately 12g/100ml
pH	7 - 9 50g/L in water at 20degC
Molecular Weight	174.26

10. STABILITY AND REACTIVITY

General Information	Product is a non-flammable solid.
Chemical Stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid	No Data Available
Materials to Avoid	Avoid strong oxidising agents, chlorine, and nitric acid. Vigorous reaction will occur when potassium sulphate is melted with aluminium or magnesium.
Hazardous Decomposition Products	Decomposition products include sulphur dioxide, sulphur trioxide. May release sulphur dioxide and sulphur trioxide when heated in a fire.
Hazardous Polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information

Animal Toxicity Data: LD50 (oral rat) = 6600mg/kg.

Not listed as carcinogenic (IARC and ACGIH)

Eye Irritant

May cause irritation, redness and impaired vision.

Ingestion

May cause diarrhea, abdominal cramps, mouth and tongue pain, sore throat, nausea, stomach ache

Inhalation

Irritating to the upper respiratory tract and mucous membranes. May cause sensitisation on inhalation.

Skin Irritant

May cause redness, irritation and sensitisation.

Carcinogen Category No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity	LC50 - Pimephales promelas (fathead minnow) - 680 mg/l - 96 h
Persistence/Degradability	Hazardous short term degradation products are not likely.
Mobility	No information available on mobility for this product.
Environmental Fate	Avoid contaminating waterways, drains and sewers.
Bioaccumulation Potential	No information available on bioaccumulation for this product.
Environmental Impact	No Data Available

13. DISPOSABLE CONSIDERATIONS

General Information Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill

Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Marine Transport

Not classified as dangerous according to the criteria of International Marine Dangerous Goods (IMDG) for transport by sea.



Air Transport

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

15. REGULATORY INFORMATION

Constituent or material used in this product are covered by Australian Inventory of Chemical Substances (AICS)

Poisons Schedule (Aust) Not scheduled

16. OTHER INFORMATION

The MSDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

STATEMENT OF DISCLAIMER:

This Material Safety Data Sheet has been developed according to WHS Code of Practice Preparation of Safety Data Sheets for Hazardous Chemicals Guidelines and written in accordance with GHS format.

All information is as accurate and up-to-date as possible. Since Manutec Pty Ltd cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application. Manutec Pty Ltd will not be responsible for damages of any nature resulting from use of or reliance upon this information.

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