

SAFETY DATA SHEET

PRODUCT NAME: MURIATE OF POTASH

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Recommended use: Fertiliser
Other Names: MOP, Potassium Chloride
Supplier: Baileys Fertilisers
Address: 24 Beach St
Kwinana Beach
Western Australia 6167
Telephone: (08) 9439 1688 (Monday to Friday: 8.00am – 5.00pm)
Emergency Contact: Poisons Information Centre on 13 11 26
Facsimile: (08) 9439 1068
Email: baileys@baileysfertiliser.com.au
Website: baileysfertiliser.com.au

2. HAZARD IDENTIFICATION

- 1. GHS Classification:** Not hazardous according to Australian Criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).
- 2. Signal Word:** Not applicable.
- 3. Hazard Category(s):** Not applicable.
- 4. Hazard Symbol:** Not applicable.
- 5. Hazard Statement(s):** Not applicable.
- 6. Precautionary Statements:** Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Contents % w/w
Potassium chloride	7447-40-7	> 99
Impurities	N/A	Remainder

4. FIRST AID MEASURES

Eye Contact: If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes. Seek medical attention if symptoms persist.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Inhalation: If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Ingestion: For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

First aid facilities: Eye wash facilities should be available. Drinking fountain should be available.

Medical Attention and Special Treatment: Treat symptomatically.

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5. FIRE FIGHTING MEASURES

Flammability:	Non-flammable.
Extinguishing Media:	Use an extinguishing agent suitable for the surrounding fire.
Hazardous Products of Combustion:	May evolve toxic gases (potassium oxides, chlorides) when heated to decomposition. The manufacturer reports that contact with hot nitric acid may cause evolution of toxic nitrosyl chloride. Contact with other strong acids may produce corrosive and toxic hydrogen chloride gas.
Special Fire Fighting Instructions:	Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment, including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
Hazchem Code:	None allocated.

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. See sections 8 and 13 for exposure controls and disposal.
Clean Up Procedures:	Contain spillage, then collect and place in suitable containers for disposal. Avoid generating dust.
Environmental precautions:	Prevent product from entering drains and waterways.

7. HANDLING AND STORAGE

Precautions for safe handling:	Before use, carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.
Conditions for safe storage:	Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.
Specific end use(s):	No information provided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure standards:	No exposure standards have been entered for this product.
Biological limits:	No biological limit values have been entered for this product.

Exposure controls

Engineering controls:	Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.	
PPE:	Eye / Face	At high dust levels, wear dust-proof goggles.
	Hands	With prolonged use, wear PVS or rubber or cotton gloves.
	Body	With prolonged use, wear coveralls.
	Respiratory	At high dust levels, wear a Class 1 (Particulate) respirator.

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Work Hygienic Practices: Do not eat, drink or smoke when using this product. Do not ingest. Avoid contact with eyes and prolonged or repeated contact with skin. Wash thoroughly after handling. Remove contaminated clothing and shoes immediately and rinse with plenty of water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Red or white crystals
Odour	Odourless
Flash Point	Not available
Boiling Point	1500°C
Melting Point	772 - 776 °C
Evaporation Rate	Not available
pH	5.4 – 10.0 (10% solution)
Vapour density	Not available
Specific Gravity	1.1
Solubility (water)	Soluble
Vapour pressure	Not available
Upper explosion limit	Not relevant
Lower explosion limit	Not relevant
Partition coefficient	Not available
Autoignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available
Odour threshold	Not available

10. STABILITY AND REACTIVITY

General Information:	Carefully review all information provided in the below sections.
Chemical stability:	Stable under recommended conditions of storage.
Possibility of hazardous reactions:	Polymerisation will not occur.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.
Materials to Avoid:	Incompatible (potentially explosive) with oxidising agents (e.g. hypochlorites). Also incompatible with nitrites, dichloromaleic anhydride and urea and acids (e.g. nitric acid). The manufacturer reports that in the presence of moisture, this product is mildly corrosive to cement, mild steel, aluminium, zinc and copper.
Hazardous decomposition products:	May evolve toxic gases (potassium oxides, chlorides) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute toxicity:	May be harmful if swallowed. Oral toxicity: An oral LD50 in rats of 2600 mg/kg was reported for potassium chloride.
Skin:	Not classified as a skin irritant. Contact may result in mild irritation and rash.
Eye:	Not classified as an eye irritant. Contact may cause mild irritation and lacrimation.

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Sensitisation:	This product is not known to be a skin or respiratory sensitiser.
Mutagenicity:	No evidence of mutagenic effects.
Carcinogenicity:	No evidence of carcinogenic effects.
Reproductive:	No evidence of reproductive effects.
STOT – single exposure:	Acute potassium poisoning via ingestion is rare as a large single dose usually induces vomiting, and potassium is rapidly excreted by the body, however this product does have the potential to cause cardiovascular disorders.
STOT – repeated exposure:	Not classified as causing organ effects from repeated exposure.
Aspiration:	Not relevant.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No information provided.
Persistence and degradability:	No information provided.
Bioaccumulative potential:	No information provided.
Mobility in soil:	No information available.
Environmental fate:	Prevent entry into drains and waterways.
Other adverse effects:	No information available.

13. DISPOSAL CONSIDERATIONS

Disposal:	Collect and place in sealable containers and dispose of to an approved landfill site. Contact the manufacturer / supplier for additional information (if required).
Special Precautions for Land Fill:	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG or IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG)	AIR TRANSPORT (IATA / ICAO)
UN Number		None allocated.	
Proper Shipping Name		None allocated.	
Transport Hazard Class		None allocated.	
Packing Group		None allocated.	
Hazchem Code		None allocated.	

15. REGULATORY INFORMATION

Poison schedule	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Classifications	Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

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The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substance [NOHSC: 1008(2004)].

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Disclaimer

This document has been prepared by Baileys Fertilisers and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue.

While Baileys Fertilisers has taken all due care to include accurate and up to date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Baileys Fertilisers accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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End of SDS