



MATERIAL SAFETY DATA SHEET

Potassium Chloride

Date of Issue: 19 September 2011

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product Name: Potassium Chloride

Other Names: Potassium Monochloride, Muriate of Potash

Recommended Use: Fertiliser

Supplier: Campbells Fertilisers Australasia

Address: 18 Raymond Road, Laverton North, Victoria, 3026

Telephone: (03) 9931 2211

Facsimile: (03) 9931 2201

Website: www.campbellsfert.com.au

Emergency Telephone Number: (03) 9931 2211 (business hours only 8.30 am to 5.00 pm)

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

Hazard Designation: Not classified as hazardous according to the criteria of NOHSC, based on available information

Risk Phrases: Not applicable

Safety Phrases: Not applicable

ADG Classification: Not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail., 7th Edition

SUSMP Classification: Exempt from Poison Scheduling

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component:	CAS Number:	Proportion (%):
Potassium Chloride	7447-40-7	95-98
Sodium Chloride	8028-77-1	1-4

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4. FIRST AID MEASURES

If exposed, concerned or if symptoms persist, get medical attention/advice. If medical advice is needed, have product container or label at hand.

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Skin Contact:	Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.
Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician if irritation persists.
Ingestion:	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.
First Aid Facilities:	Ensure washing facilities, including an eyewash, are available.
Medical Personnel:	Treat symptomatically.
Aggravated Medical Conditions Caused by Exposure:	Persons with pre-existing kidney function may be more susceptible to the effects of the substance.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	All types of extinguishers.
Hazards from Combustion Products:	Non-combustible. Ambient fire may liberate hazardous vapours. The following may develop in event of fire: hydrochloric acid.
Precautions for Firefighters and Special Protective Equipment:	Wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safe distance and wear suitable protective clothing. Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.
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Methods and Materials for Containment and Clean Up: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Wash the area with water. Avoid the release of washing water into water courses and soil.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid generating dust by excessive or unnecessary movement.

Conditions for Safe Storage, including any Incompatibilities: Store in a dry location. Avoid contact with aluminium or carbon steel to minimize corrosion

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards: OSHA Permissible Exposure Limit (PEL):
15 mg/m³ total dust, 5 mg/m³ respirable fraction for nuisance dusts.
ACGIH Threshold Limit Value (TLV):
10 mg/m³ total dust containing no asbestos and < 1% crystalline silica for Particulates Not Otherwise Classified (PNOC)

Biological Limit Values: No biological limit allocated.

Engineering Controls: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. 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.

Personal Protective Equipment: *Respiratory Protection:*
If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to 10 times the exposure limit. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit.
If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Eye Protection:
Use chemical safety goggles and/or a full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Skin Protection:
Wear protective gloves and clean body-covering clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White crystals or powder
Odour:	Odourless
Vapour Pressure:	Low
Vapour Density:	Not available
Boiling Point:	1413 °C (2575 °F) at 1013 hPa
Melting Point:	772 °C (1422 °F)
Solubility:	340 g/L (20°C)
Density:	1.98 g/cm ³ (20°C)
pH:	5.5 - 8 (at 50 g/L water, 25°C)

10. STABILITY AND REACTIVITY

Chemical Stability:	Chemically stable substance
Conditions to Avoid:	No information available.
Incompatible Materials:	Organic substances, acids and alkalis
Hazardous Decomposition Products:	Hydrochloric acid may develop in event of fire.
Hazardous Reactions:	None specified.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	LD ₅₀ (oral, rat) = 2600 mg/kg
Potential Health Effects:	<p>When the product is handled appropriately, hazardous effects are unlikely to occur.</p> <p><i>Inhalation:</i> Inhalation of high concentrations of dust may cause nasal or lung irritation (throat scratching, coughing, disturbance of breathing).</p> <p><i>Ingestion:</i> Large quantities can produce burning pain in oral cavity, gastrointestinal irritation, nausea, vomiting, stomach pain, diarrhoea, and injury to the nervous system, liver, kidneys and electrolyte metabolism. May produce weakness, motion activity reduction and circulatory problems. May affect heart, causing cardiac dysrhythmia, dystaxia and convulsions. In severe cases, ingestion may be fatal due to cardiovascular failure.</p> <p><i>Skin Contact:</i> Contact may cause irritation or rash, particularly with moist skin.</p>

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Eye Contact:

Potassium chloride is moderate eye irritant. Redness, tearing, possible abrasion can occur.

Chronic Exposure: *Mutagenicity (mammal cell test):* Chromosome aberration positive (*in vitro*)
Bacterial Mutagenicity: Ames test negative

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not toxic to aquatic organisms, as defined by US EPA.

Persistence and Degradability: *Environmental Fate :* Will remain in solution until solubility of product (340 g/L) reached. Ions may be absorbed by plants or by animals ingesting water containing potash.

Stability in Water: Ions can persist, dissociates in water.

Stability in Soil: Binds to clay particles.

Distribution: 1.51 x 10⁻⁸% to air, 45.2% to water, 54.7% to soil, 0.0755% to sediment

Mobility: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods, including Disposal of Containers: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

Special Precautions for Landfill or Incineration: None specified.

14. TRANSPORT INFORMATION

UN Number: None allocated
 Not classified as a dangerous good for road and rail transport.

UN Proper Shipping Name: None allocated

Class and Subsidiary Risk: None allocated

Packing Group: None allocated

Special Precautions for User: None allocated

HAZCHEM Code: None allocated



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15. REGULATORY INFORMATION

SUSMP:	Exempt from Poison Scheduling
APVMA:	Exempt from registration
State Departments of Agriculture / Primary Industries:	Registration not required for fertilisers
Australian Inventory of Chemical Substances (AICS):	All components listed

16. OTHER INFORMATION

Edition:	19 September 2011
Revision Due:	19 September 2016
Reason for Revision:	Initial version
Preparation Information:	Prepared by Campbells Fertilisers Australasia
Data Sources:	Supplier MSDS
Trademark Information:	None
Glossary:	

CAS	Chemical Abstract Services number, used to uniquely identify chemical compounds
NIOSH	National Institute for Occupational Safety and Health, USA
NOHSC	National Occupational Health and Safety Commission
PPE	Personal protective equipment
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons

This MSDS summarises our best knowledge of the health and safety hazard information available for this product and how to safely handle and use it. Since the use of this information and the conditions of the use of this product are not under the control of Campbell's Fertilisers, it is the user's responsibility to determine conditions of safe use of the product.

END OF MSDS