

## Safety Data Sheet POTASSIUM CHLORIDE

SDS no. SMWZV3NA • Version 1.0 • Date of issue: 2025-11-04

### SECTION 1: Identification

#### GHS Product identifier

Product name POTASSIUM CHLORIDE

#### Other means of identification

Product	Product Code
Potassium Chloride AR	PA054
Potassium Chloride BP	PF054
Potassium Chloride BP	PL054
Potassium Chloride BP	PP054
Potassium Chloride Low Ammonium	PS054
Potassium Chloride TG	PT054

#### Recommended use of the chemical and restrictions on use

Laboratory reagent, spectroscopy, photography, buffer solutions, pharmaceutical, preparations, electrolyte for batteries, treatment of prophyllaxis and hypokalemia, food additive, salt substitute, plant nutrient, fertilizer, source of potassium salts and laboratory reagent.

#### Supplier's details

Name	ChemSupply Australia Pty Ltd
Address	38-50 Bedford Street 5013 Gillman South Australia Australia
Telephone	08 8440 2000
email	<a href="http://www.chemsupply.com.au">www.chemsupply.com.au</a>

#### Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

### SECTION 2: Hazard identification

#### General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

#### Classification of the substance or mixture

#### GHS classification in accordance with: UN GHS revision 7

Not a hazardous substance or mixture.

#### GHS label elements, including precautionary statements

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Not a hazardous substance or mixture.

### Other hazards which do not result in classification

Not a hazardous substance or mixture.

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## SECTION 3: Composition/information on ingredients

### Mixtures

<b>Molecular weight</b>	74.55
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[00] Information on Composition: Occurs naturally as sylvite.

Component	Identification	Weight %	Classifications
Potassium chloride	CAS no.: 7447-40-7 EC no.: 231-211-8	100 %	CLASSIFICATIONS: No data available. HAZARDS: No data available.

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## SECTION 4: First-aid measures

### Description of necessary first-aid measures

General advice	Advice to Doctor: Consider the effects of potassium salts on the heart.  First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If persistent irritation occurs, obtain medical attention.
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

### Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

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## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

Small fire: Use dry chemical, CO<sub>2</sub>, water spray or foam.

Large fire: Use water spray, fog or foam.

### Specific hazards arising from the chemical

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Hazards from Combustion Products: May liberate toxic fumes in fire (hydrogen chloride).

#### Special protective actions for fire-fighters

Wear SCBA and structural firefighter's uniform.

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## SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. For personal protection see section 8.

#### Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Keep in suitable, closed containers for disposal.

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## SECTION 7: Handling and storage

#### Precautions for safe handling

Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

#### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

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## SECTION 8: Exposure controls/personal protection

#### Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

#### Individual protection measures, such as personal protective equipment (PPE)

##### Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

##### Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

##### Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

##### Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

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## SECTION 9: Physical and chemical properties

#### Basic physical and chemical properties

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Physical state	Solid
Appearance	Colourless or white crystals.
Color	Colourless to white
Odor	Odourless
Odor threshold	
Melting point/freezing point	772 °C
Boiling point or initial boiling point and boiling range	Sublimes at 1500 °C.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
pH	5.5 - 8.0 (50 g/l, H <sub>2</sub> O, 25 °C)
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Very soluble in water (340 g/L @ 20 °C). Hydrochloric acid, sodium or magnesium chlorides diminish its solubility in water. Solubility in Organic Solvents: Slightly soluble in alcohol. Insoluble in ether and acetone.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	Low
Density and/or relative density	Specific Gravity: 1.98
Relative vapor density	No data available.
Particle characteristics	No data available.

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### SECTION 10: Stability and reactivity

#### Reactivity

Stable under normal conditions of storage and handling.

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

#### Conditions to avoid

None under normal use conditions.

#### Incompatible materials

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Strong oxidizing agents, strong acids, sulfuric acid, potassium permanganate, bromine trifluoride.

#### Hazardous decomposition products

Hydrochloric acid, hydrogen chloride gas, potassium oxides.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Acute Toxicity - Oral: LD50 (rat): 2600 mg/kg.

Ingestion: After swallowing of large amounts may cause nausea, vomiting, diarrhoea, and abdominal cramps.

Inhalation: Inhalation of dust in high concentrations may cause respiratory tract irritation.

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/irritation

Not classified based on available information.

#### Respiratory or skin sensitization

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### Specific target organ toxicity (STOT) - single exposure

Not classified based on available information.

#### Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

#### Aspiration hazard

Not classified based on available information.

#### Additional information

Chronic Effects: Due to effect of potassium salts on the heart, accidental ingestion of large amounts by persons suffering from a heart condition should be considered dangerous and immediate medical assistance sought.

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## SECTION 12: Ecological information

### Toxicity

Acute Toxicity - Fish: *Gambusia affinis* LC50: 920 mg/l/96 h.

Acute Toxicity - Daphnia: *Daphnia magna* EC50: 825 mg/l/48 h.

### Persistence and degradability

Methods for the determination of biodegradability are not applicable to inorganic substances.

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## SECTION 13: Disposal considerations

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### Disposal methods

#### Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

#### Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

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## SECTION 14: Transport information

### ADG (Road and Rail)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### Australia SUSMP

Poison Schedule: NS

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## SECTION 16: Other information

### Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), [hcis.safeworkaustralia.gov.au](http://hcis.safeworkaustralia.gov.au)

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)