

## Safety Data Sheet POTASSIUM BROMIDE

SDS no. MRZXBAPX • Version 1.0 • Date of issue: 2025-11-08

### SECTION 1: Identification

#### GHS Product identifier

Product name POTASSIUM BROMIDE

#### Other means of identification

Product Product Code

Potassium Bromide AR	PA006
Potassium Bromide LR	PL006
Potassium Bromide TG	PT006

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

Photography (gelatin bromide papers and plates), process engraving and lithography, special soaps, spectroscopy, infrared transmission, sedatives, anticonvulsants, reagent for analysis 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	www.chemsupply.com.au

#### 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 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

- Serious eye damage/eye irritation, Cat. 2

#### GHS label elements, including precautionary statements

#### Pictograms

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### Signal word

### Warning

### Hazard statement(s)

H319

Causes serious eye irritation

### Precautionary statement(s)

P264

P280

P305+P351+P338

P337+P313

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

## SECTION 3: Composition/information on ingredients

### Mixtures

<b>Molecular weight</b>	119
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<b>Component</b>	<b>Identification</b>	<b>Weight %</b>
Potassium bromide	CAS no.: 7758-02-3 EC no.: 231-830-3	100 %

## 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.

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

Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse. Seek medical attention if problems persist.

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

May liberate toxic fumes in fire including hydrogen bromide gas and potassium oxides.

#### 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

Avoid contact with skin and eyes. Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. For precautions see section 2.

#### 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

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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

Physical state	Solid
Appearance	Colourless crystals or white granules or powder.
Color	Colourless to white
Odor	Odourless.
Odor threshold	
Melting point/freezing point	730-734 °C
Boiling point or initial boiling point and boiling range	1435 °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 - 8.5 (50 g/l, H <sub>2</sub> O, 20 °C).
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Soluble (650 g/L @ 20 °C) Solubility in Organic Solvents: Soluble in glycerol. Slightly soluble in alcohol and ether.
Partition coefficient n-octanol/ water (log value)	No data available.
Vapor pressure	1.3 hPa @ 795 °C
Density and/or relative density	Specific Gravity: 2.75 @ 25 °C
Relative vapor density	No data available.
Particle characteristics	No data available.

#### Further safety characteristics (supplemental)

Other Information: Taste: Pungent, strong, bitter, saline taste.

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### SECTION 10: Stability and reactivity

#### Reactivity

Stable under normal conditions of storage and handling.

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### Chemical stability

Slightly hygroscopic.

### Possibility of hazardous reactions

Violent reaction with BrF<sub>3</sub>.

### Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

### Incompatible materials

Acids, halogen-halogen compounds, strong oxidizing agent, heavy metal salts, aluminium, potassium.

### Hazardous decomposition products

Hydrogen bromide gas and potassium oxides.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Acute Toxicity - Oral: LD<sub>50</sub> (rat): > 2,000 mg/kg.

Ingestion: Symptoms may include tiredness and profound stupor, possibly with cardiac failure.

Inhalation: May cause bromide rashes (bromoderma), especially of the face, resembling acne and furunculosis. Irritating to respiratory system.

#### Skin corrosion/irritation

Irritating to skin.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### 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

Health Hazard: The following applies to inorganic bromides in general: After uptake of large quantities: ataxia (impaired locomotor coordination), confusion, vomiting, spasms, coma.

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Chronic Effects: Large doses may cause CNS depression. Prolonged intake may cause blurred vision, mental deterioration, slurred speech, weakened memory and bromide rashes, especially of the face, and resembling acne and furunculosis.

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### SECTION 12: Ecological information

#### Toxicity

Acute Toxicity - Fish: P. promelas LC50: >45 mg/l/96 h.

Acute Toxicity - Daphnia: Daphnia magna EC50: >30 mg/l/96 h.

#### Persistence and degradability

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

Behaviour in environmental compartments: Concentration in organisms is not to be expected.

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### SECTION 13: Disposal considerations

#### 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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## **Safety Data Sheet**

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results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

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)