

Infosafe No™ 1CH55 Issue Date : November 2020 RE-ISSUED by CHEMSUPP

Product Name **POTASSIUM BROMIDE**

Classified as hazardous

1. Identification

GHS Product Identifier POTASSIUM BROMIDE

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

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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.

Other Names	<u>Name</u>	<u>Product Code</u>
	POTASSIUM BROMIDE AR	PA006

Other Information

Chem-Supply 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 Chem-Supply 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 Chem-Supply 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.

2. Hazard Identification

GHS classification of the substance/mixture Eye Damage/Irritation: Category 2A

Signal Word (s) WARNING

Hazard Statement (s) H319 Causes serious eye irritation.

Pictogram (s) Exclamation mark



Precautionary statement – Prevention P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

3. Composition/information on ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Potassium bromide	7758-02-3	100 %

4. First-aid measures

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Inhalation	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.
Ingestion	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.
Skin	Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse. Seek medical attention if problems persist.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient. Consider the effects of potassium salts on the heart.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products	May liberate toxic fumes in fire including hydrogen bromide gas and potassium oxides.
Specific Methods	Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media. Small fire: Use dry chemical, CO ₂ , water spray or foam. Large fire: Use water spray, fog or foam.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling	Avoid substance contact and generation and inhalation of dust.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed and dry, away from direct sunlight. Store at room temperature (15 - 25 °C).

8. Exposure controls/personal protection

Other Exposure Information	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m ³ . All atmospheric contamination should be kept to as low a level as is workable. These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.
Appropriate engineering controls	Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
Respiratory Protection	Usually is not required. Where protection is required from nuisance levels of dust or mists select respiratory protection that complies with AS 1716 - Respiratory Protective

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	Devices and select in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels.
Eye 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.
Hand Protection	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
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.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Solid
Appearance	Colourless crystals or white granules or powder.
Odour	Odourless.
Melting Point	730-734 °C
Boiling Point	1435 °C
Solubility in Water	Soluble (650 g/L @ 20 °C)
Solubility in Organic Solvents	Soluble in glycerol. Slightly soluble in alcohol and ether.
Specific Gravity	2.75 @ 25 °C
pH	5.5 - 8.5 (50 g/l, H ₂ O, 20 °C).
Vapour Pressure	1.3 hPa @ 795 °C
Flammability	Non combustible material.
Molecular Weight	119.00
Other Information	Taste: Pungent, strong, bitter, saline taste.

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons. Slightly hygroscopic.
Incompatible Materials	Acids, halogen-halogen compounds, strong oxidizing agent, heavy metal salts, aluminium, potassium.
Hazardous Decomposition Products	Hydrogen bromide gas and potassium oxides.
Possibility of hazardous reactions	Violent reaction with BrF ₃ .

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Hazardous Polymerization Will not occur.

11. Toxicological Information

Acute Toxicity - Oral LD50 (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 Irritating to skin.

Eye Causes serious eye irritation.

Respiratory sensitisation Not classified based on available information.

Skin Sensitisation 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.

STOT-single exposure Not classified based on available information.

STOT-repeated exposure Not classified based on available information.

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

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.

Mutagenicity Not classified based on available information.

12. Ecological information

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.

Environmental Protection Do not allow to enter waters, waste water, or soil!

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

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

13. Disposal considerations

Disposal Considerations Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. Regulatory information

Regulatory Information All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

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Poisons Schedule Not Scheduled

16. Other Information

Literature References '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'.
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.
Safe Work Australia, 'Hazardous Chemical Information System'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'.
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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Empirical Formula & Structural Formula KBr

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