



Infosafe No™	1CHHH	Issue Date : November 2019	RE-ISSUED by CHEMSUPP
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Product Name : **ZINC BROMIDE**

Classified as hazardous

1. Identification**GHS Product Identifier** ZINC BROMIDE**Company Name** CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)**Address** 38 - 50 Bedford Street GILLMAN
SA 5013 Australia**Telephone/Fax Number** Tel: (08) 8440-2000
Fax: (08) 8440-2001**Emergency phone number** CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)**Recommended use of the chemical and restrictions on use** Photographic emulsions, manufacture of rayon and radiation viewing shields.**Other Names****Name****Product Code**

ZINC BROMIDE LR

ZL003

Zinc bromide anhydrous

Additional Information

If this compound is used for human internal use, then it may acquire a poison schedule of S4. When used for laboratory chemical analysis, it has no poison schedule.

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** Hazardous to the Aquatic Environment - Acute Hazard: Category 1
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
Skin Corrosion/Irritation: Category 1B**Signal Word (s)** DANGER**Hazard Statement (s)** H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.**Pictogram (s)** Corrosion, Environment**Precautionary statement – Prevention**P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.**Precautionary statement – Response**P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 Wash contaminated clothing before reuse.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**Precautionary statement – Storage** P405 Store locked up.



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Precautionary statement – Disposal P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Chemical Characterization	Solid				
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Zinc bromide	7699-45-8	100 %		

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice if symptoms persist.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If persistent irritation occurs, obtain medical attention.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
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.
Most important symptoms/effects, acute and delayed	The following applies to zinc compounds in general: only slightly absorbable via the gastrointestinal tract. Adstringent effect on mucous membranes. Metal-fume fever after inhalation of large quantities. The following applies to inorganic bromides in general: the uptake of large quantities as a result of misuse or improper handlings leads to tiredness, agitation, spasms.
Other Information	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products	May liberate toxic fumes in fire (hydrogen bromide).
Specific Methods	Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media. Small fire: Use dry chemical, CO2 or water spray. Large fire: Use CO2, dry chemical or foam. Do NOT use water jets. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers. Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive fumes.
Specific hazards arising from the chemical	
Hazchem Code	2X
Precautions in connection with Fire	Wear SCBA and a chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.

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.
Clean-up Methods - Large Spillages	Seek expert advice on handling and disposal.
Environmental Precautions	Avoid release to the environment.

7. Handling and storage

Precautions for Safe Handling	Avoid generation or accumulation of dusts. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid prolonged or repeated
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Conditions for safe storage, including any incompatibilities contact with skin and eyes .
Store in a cool,dry place. Keep containers closed at all times.
Store at 15 to 25 °C.

Storage Regulations Refer Australian Standard AS 3780-1994 'The storage and handling of corrosive substances'.

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/m3. All atmospheric contamination should be kept to as low a level as is workable.

Respiratory Protection Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

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 White to pale yellow crystals or powder.

Odour Almost odourless.

Melting Point 394 °C

Boiling Point 697 °C

Solubility in Water Soluble, 4.47 g/l at 20°C

Solubility in Organic Solvents Soluble in alcohol and ether.

Specific Gravity ~ 4.207

pH Acidic. pH ~ 4 (saturated solution)

Partition Coefficient: n-octanol/water Log P(o/w): 0.33

Flammability Non combustible material.

Molecular Weight 225.20

Other Information Sharp metallic taste.

10. Stability and reactivity



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Chemical Stability	Stable under normal use conditons. Hygroscopic
Conditions to Avoid	Exposure to moisture. Incompatibles.
Incompatible Materials	Water, aluminium, brass, sodium and stainless steel. Forms explosive mixtures with sodium and potassium.
Hazardous Decomposition Products	Hydrogen bromide, zinc/zinc oxides.
Possibility of hazardous reactions	Reacts with water to form zinc oxybromide in dilute solutions.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	Ingestion of the material may cause severe burns of the mouth, throat, oesophagus and gastrointestinal tract. Symptoms may include sore throat, vomiting, and diarrhea. Sufficient absorption may occur when large doses are ingestion and can produce damage to the cenral nervous system, eyes and brain. Other symptoms may include of skn rash, blurred vision, eye effects, drowsiness, irritability, dizziness, mania, hallucinations and possible coma. Risk of perforation in the oesophagus and stomach!
Inhalation	Inhalation of dust can cause irritation of mucous membranes and of the upper respiratory tract. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, dyspnoea, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. High concentration may cause lung damage.
Skin	Skin contact causes burns, irritation, redness, itching and pain. May cause skin burns if skin is moist or wet.
Eye	Eye contact can cause severe irritation or burns with eye damage. Risk of blindness.
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	No evidence of carcinogenic properties.
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.
Chronic Effects	Repeated ingestion of small amounts may cause central nervous system depression, including ataxia, memory loss, depression, irritability and headaches. Repeated or prolonged exposure to the skin may lead to bromide rashes (bromaderma), especially of the face and resembling acne and furunculosis, often occur when bromide inhalation or administration is prolonged H314 Causes severe skin burns and eye damage.
Serious eye damage/irritation	H314 Causes severe skin burns and eye damage.
Mutagenicity	No evidence of mutagenic effects.
Skin corrosion/irritation	H314 Causes severe skin burns and eye damage.

12. Ecological information

Ecotoxicity	Quantitative data on the ecological effect of this product are not available.
Persistence and degradability	Methods for the determination of biodegradability are not applicable to inorganic substances.
Environmental Fate	Behaviour in environmental compartments: Distribution: Log P(o/w): 0.33
Bioaccumulative Potential	No bioaccumulation is to be expected (log P(o/w) <1.0).
Other Precautions	Contamination of ground water involves risks for drinking water catchment.



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Other Information The following applies to soluble zinc compounds in general: Inorganic zinc salts have a bactericidal effect. From > 10 mg Zn/l on, the bacteriological self-purification of water is inhibited or suppressed. Toxic for water organisms. Lethal for fish from 0.1 mg/l in soft water.

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 Dangerous Goods of Class 8 Corrosives are incompatible in a placard load with any of the following: - Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids and Class 7.

U.N. Number 3260

UN proper shipping name CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Transport hazard class(es) 8

Hazchem Code 2X

Packaging Method 3.8.8

Packing Group III

IERG Number 37

15. Regulatory information

Regulatory Information Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Poisons Schedule Not Scheduled

16. Other Information

Literature References 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Chemical Information System, 2005'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'. Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

Contact Person/Point

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Empirical Formula & Structural Formula ZnBr₂

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