

## Safety Data Sheet SODIUM BROMIDE

SDS no. 9K81T62M • Version 1.0 • Date of issue: 2024-07-08

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### SECTION 1: Identification

#### GHS Product identifier

Product name SODIUM BROMIDE

#### Other means of identification

Name	Product Code
SODIUM BROMIDE AR	SA084
SODIUM BROMIDE LR	SL084

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

Photography, medicine (sedative), preparation of bromides, organic chemicals 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)

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### SECTION 2: Hazard identification

#### 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

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

Molecular weight: 102.89

### Components

Component	CAS no.	Concentration
Sodium bromide (EC no.: 231-599-9)	7647-15-6	100 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.		

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## SECTION 4: First-aid measures

### Description of necessary first-aid measures

If inhaled	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.
In case of skin contact	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.
In case of 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
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.

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.

### Specific hazards arising from the chemical

Hazards from Combustion Products: May liberate toxic fumes in fire such as hydrogen bromide.

Material does not burn. Fire or heat will produce toxic gases. Runoff may pollute waterways.

### 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

Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.  
Wear protective clothing specified for normal operations (see Section 8)

**Methods and materials for containment and cleaning up**

Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal.

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**SECTION 7: Handling and storage**

**Precautions for safe handling**

Avoid generation or accumulation of dusts. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

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

Store in a cool, dry place. Keep containers closed at all times. Store away from acids. Keep container dry. Keep away from light.

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**SECTION 8: Exposure controls/personal protection**

**Appropriate engineering controls**

In industrial situations 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.

**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.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

**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**

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. 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.

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**SECTION 9: Physical and chemical properties**

**Basic physical and chemical properties**

Physical state

Solid

Appearance

White crystalline powder or granules.

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Color	No data available.
Odor	Odourless.
Odor threshold	No data available.
Melting point/freezing point	755 °C
Boiling point or initial boiling point and boiling range	1390 - 1393 °C
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	> 750 °C
Oxidizing properties	No data available.
pH	~ 5.4 (50 g/l, H <sub>2</sub> O, 20 °C)
Kinematic viscosity	No data available.
Solubility	Solubility in Water: 905 g/l (20 °C) Solubility in Organic Solvents: Moderately soluble in alcohol. Insoluble in other organic solvents.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	1 hPa (@ 806 °C)
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: 3.208
Relative vapor density	No data available.
Particle characteristics	No data available.

### Supplemental information regarding physical hazard classes

No data available.

### Further safety characteristics (supplemental)

Other Information: Taste: Saline and somewhat bitter taste.

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## SECTION 10: Stability and reactivity

### Reactivity

Stable under normal conditions of storage and handling.

### Chemical stability

Stable under normal conditions. Hygroscopic (absorbs moisture from the air, becoming very hard). Sensitive to heating and light.

### Possibility of hazardous reactions

Will react violently with bromine trifluoride.

### Conditions to avoid

Exposure to moisture.

Avoid storing in direct sunlight and avoid extremes of temperature.

### Incompatible materials

Strong acids, strong oxidizing agents, alkali metals, halogen-halogen compounds, bromine trifluoride, alkaloidal and heavy metal salts.

### Hazardous decomposition products

Bromine fumes released over 800 °C; hydrogen bromide gas, sodium oxides.

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## **SECTION 11: Toxicological information**

### **Information on toxicological effects**

#### **Acute toxicity**

Acute Toxicity - Oral: LD50 (rat): 3.5 g/kg.

Ingestion: Ingestion of material may cause nausea, vomiting and abdominal pain. May cause depression, sedation and confusion. Ingestion in large quantities increases the chance of bromide poisoning which may increase absorption and lead to CNS depression as well as eye and brain effects. Symptoms may include blurred vision and other eye effects, dizziness, skin rash, drowsiness, irritability, hallucinations and coma.

Inhalation: Inhalation of dust may cause respiratory tract irritation with symptoms including coughing and shortness of breath.

#### **Skin corrosion/irritation**

Acute Toxicity - Dermal: LD50 (rabbit): > 2000 mg/kg

May cause skin rashes, irritation, redness and pain.

#### **Serious eye damage/irritation**

Contact may cause transient irritation, redness and pain. May lead to conjunctivitis and blurred vision.

#### **Respiratory or skin sensitization**

No data available

#### **Germ cell mutagenicity**

No data available.

#### **Carcinogenicity**

No data available.

#### **Reproductive toxicity**

No data available.

#### **Summary of evaluation of the CMR properties**

No data available.

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

No data available.

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

No data available.

#### **Aspiration hazard**

No data available.

#### **Additional information**

Chronic Effects: Repeated or prolonged exposure by any route may cause bromism, visual disturbances, skin rashes (bromaderma). Repeated ingestion of small amounts may cause central nervous system depression, mental deterioration, depression, ataxia, psychoses, memory loss, irritability and headaches. May cause confusion, vomiting, spasms (coma) after ingestion of large amounts.

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Sodium bromide: mouse LD50 intraperitoneal 5gm/kg (5000mg/kg) Archives Internationales de Pharmacodynamie et de Therapie. Vol. 128, Pg. 391, 1950.

mouse LD50 oral 7gm/kg (7000mg/kg) Schweizerische Medizinische Wochenschrift. Vol. 85, Pg. 305, 1955.

[Link to PubMed](#)

mouse LD50 subcutaneous 5020mg/kg (5020mg/kg) Journal of Pharmaceutical Sciences. Vol. 50, Pg. 858, 1961.

[Link to PubMed](#)

rabbit LDLo oral 580mg/kg (580mg/kg) "Drug Dosages in Laboratory Animals - A Handbook," Rev. ed., Barnes, C.D., and L.G. Eltherington, Berkeley, Univ. of California Press, 1973Vol. -, Pg. 243, 1973.

rat LD50 oral 3500mg/kg (3500mg/kg) Journal of Pharmacology and Experimental Therapeutics. Vol. 55, Pg. 200, 1935.

rat LD50 subcutaneous 2900mg/kg (2900mg/kg) SKIN AND APPENDAGES (SKIN): HAIR: OTHER Nippon Yakurigaku Zasshi. Japanese Journal of Pharmacology. Vol. 56, Pg. 377, 1960.

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## SECTION 12: Ecological information

### Toxicity

Environmental Protection: Do not allow material or runoff to enter surface water, groundwater or sewerage system.

Acute Toxicity - Fish: LC50 (*P. reticulata*): 16000 mg/l/96 h.

Acute Toxicity - Daphnia: EC50 (*Daphnia magna*): 5800 mg/l/48 h.

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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

#### Canadian Domestic Substances List (DSL)

Chemical name: Sodium bromide (NaBr)

CAS: 7647-15-6

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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.

### **Preparation information**

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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)