

1. IDENTIFICATION

Product Name Sodium Bromide Other Names No Data Available

Uses Laboratory use; Manufacture of substances.

Chemical Family No Data Available

Chemical Formula NaBr

Chemical Name Sodium bromide **Product Description** No Data Available

Contact Details of the Supplier of this Safety Data Sheet

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Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

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2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Schedule 4





Globally Harmonised System

Hazard Classification NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Signal Word None

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

Safe Work Australia

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

Hazard Classification NOT hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium bromide	NaBr	7647-15-6	<=100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting. Get medical advice/attention if you feel

unwell. Never give anything by mouth to an unconscious person. \\

Eye IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting

the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for 10 - 15 minutes. If eye

irritation persists, get medical advice/attention.

Skin IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation

occurs, get medical advice/attention.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms

persist, get medical advice/attention. Apply resuscitation if victim is not breathing. Administer oxygen if breathing is

difficult.

Advice to Doctor Treat symptomatically.

Medical Conditions Aggravated by No information available.

Exposure

5. FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Non-combustible; Material does not burn.

Flammability Conditions

Extinguishing Media If material is involved in a fire, use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction - Use

extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Fire and Explosion Hazard No information available.

Hazardous Products of

Combustion

Fire or heat will produce irritating and/or toxic fumes, including Bromine fumes, Hydrogen bromide gas, Sodium oxides.

Special Fire Fighting Instructions Contain runoff from fire control or dilution water - Runoff may pollute waterways.

Personal Protective Equipment Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may

provide limited protection.

Flash Point
No Data Available
Lower Explosion Limit
No Data Available
Upper Explosion Limit
No Data Available
Auto Ignition Temperature
No Data Available
Hazchem Code
No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid dust formation. Avoid breathing dust

and contact with eyes, skin and clothing.

Clean Up Procedures Collect material (sweep up/shovel) and place it into suitable containers for later disposal (see SECTION 13). Avoid

dispersal of dust in the air.

Containment Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.

Decontamination No information available.

Environmental Precautionary

Measures

Prevent entry into drains and waterways.

Evacuation Criteria Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid dust generation and accumulation. Avoid breathing dust/aerosols and contact with eyes, skin and clothing. Do not ingest. Use personal

protective equipment as required (see SECTION 8).

Storage Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Protect from moisture

(hygroscopic). Keep away from incompatible materials (see SECTION 10).

Container Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product. For dusts from solid substances without specific

occupational exposure standards:

- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust).

- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3 (total); TWA = 3 mg/m3 (respirable).

Exposure Limits No Data Available

Biological Limits No information available.

Engineering Measures A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust

ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing

dispersion of it into the general work area.

Personal Protection Equipment - Respiratory protection: Wear respiratory protection in case of inadequate ventilation or nuisance dust exposure.

Recommended: Dust respirator (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses with side-

shields; Face-shield, if the situation requires.

- Hand protection: Handle with gloves. Recommended: Impervious gloves, e.g. Nitrile rubber.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Impervious

clothing; Protective boots, if the situation requires.

Special Hazards Precaustions No information available.

To mornation available

Work Hygienic Practices Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday. Take off

contaminated clothing and wash before storage or reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance Crystalline powder

Odour Odourless
Colour White

pH 5 - 8.8 5 % aqueous soln.

Vapour Pressure No Data Available
Relative Vapour Density No Data Available

Boiling Point 1,390 °C (@ 760 mmHg)

Solubility 95 g/100 ml water 25°C

Specific Gravity 3.208

Flash Point

Auto Ignition Temp

No Data Available

Evaporation Rate

No Data Available

Bulk Density

No Data Available

Corrosion Rate

No Data Available

Decomposition Temperature 800 °C

Density No Data Available
Specific Heat No Data Available

Molecular Weight 102.89

Net Propellant Weight No Data Available **Octanol Water Coefficient** No Data Available **Particle Size** No Data Available **Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available Vapour Temperature No Data Available Viscosity No Data Available **Volatile Percent** No Data Available **VOC Volume** No Data Available

Additional Characteristics No information available.

Potential for Dust Explosion No information available.

Fast or Intensely Burning

Characteristics

No information available.

Flame Propagation or Burning

Rate of Solid Materials

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a No information available.

Fire

Properties That May Initiate or Contribute to Fire Intensity

Non-combustible; Material does not burn.

Reactions That Release Gases or

Vapours

Fire or heat will produce irritating and/or toxic fumes, including Bromine fumes, Hydrogen bromide gas, Sodium oxides.

Release of Invisible Flammable

Vapours and Gases

No information available.

10. STABILITY AND REACTIVITY

General Information Dangerous reaction with strong acids; Danger of explosion with alkali metals.

Chemical Stability Stable under normal temperatures and pressures.

Conditions to Avoid Avoid generating dust. Protect from moisture (hygroscopic).

Materials to Avoid Incompatible/reactive with strong acids, strong oxidising agents, alkali metals, halogens.

Hazardous Decomposition

Products

Fire or heat will produce irritating and/or toxic fumes, including Bromine fumes, Hydrogen bromide gas, Sodium oxides.

Hazardous Polymerisation Has not been reported.

11. TOXICOLOGICAL INFORMATION

General Information Information on possible routes of exposure:

- Ingestion: May cause fatigue, spasms, vomiting, sedation effects.

Eye contact: May cause slight eye irritation.Skin contact: Essentially non-irritating.

- Inhalation: Inhalation of dust may cause irritation of the respiratory system.

Chronic effects: Loss of righting reflex, ataxia, narcosis.

Acute

Ingestion Acute toxicity (Oral):

- LD50, Rat: 3,500 mg/kg

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity Aquatic toxicity:

- LC50, Fish: >440 mg/l (96 h) [ECHA].

- EC50, Aquatic invertebrates: 1,000 mg/l (48 h) [ECHA].

- ErC50, Algae: >440 mg/l (72 h) [ECHA].

Persistence/Degradability No information available.

Mobility Soluble in water.

Environmental Fate Slightly hazardous for water - Prevent entry into drains and waterways.

Bioaccumulation Potential BCF: 0.23 [ECHA].

Environmental Impact

No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Recycle to process, if possible. Dispose of contents/container via a licensed disposal company and in accordance with

local/regional/national regulations. Dissolve or mix the material with a combustible solvent and burn in a chemical

incinerator equipped with an afterburner and scrubber.

Special Precautions for Land Fill Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name
Class
No Data Available
Subsidiary Risk(s)
No Data Available
No Data Available
UN Number
No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name
Class
No Data Available
Subsidiary Risk(s)
No Data Available
No Data Available
UN Number
No Data Available

Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand)

NZS5433

Proper Shipping Name

Class

No Data Available
Subsidiary Risk(s)

No Data Available
No Data Available

UN Number No Data Available
Hazchem No Data Available

Pack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America)

US DOT

Proper Shipping Name
Class
No Data Available
Subsidiary Risk(s)
No Data Available
No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport

IMDG Code

Proper Shipping Name Sodium bromide Class No Data Available No Data Available Subsidiary Risk(s) **UN Number** No Data Available Hazchem No Data Available No Data Available **Pack Group Special Provision** No Data Available **EMS** No Data Available

Marine Pollutant No

Comments NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport

IATA DGR

Proper Shipping Name
Class
No Data Available
Subsidiary Risk(s)
No Data Available
UN Number
No Data Available
Hazchem
No Data Available
Pack Group
No Data Available
Special Provision
No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods ClassificationNOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information SODIUM BROMIDE for therapeutic use is listed in Schedule 4 of the SUSMP.

Poisons Schedule (Aust) Schedule 4

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Not Hazardous

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

Europe (EINECS) 231-599-9

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Not Determined

16. OTHER INFORMATION

Related Product Codes SOBROM1000, SOBROM1001, SOBROM1002, SOBROM1003, SOBROM1004, SOBROM1005, SOBROM1006, SOBROM1007,

SOBROM1008, SOBROM1009, SOBROM1010, SOBROM1011, SOBROM1012, SOBROM1013, SOBROM1014, SOBROM1015, SOBROM1016, SOBROM1017, SOBROM1100, SOBROM1300, SOBROM1400, SOBROM1500, SOBROM1600, SOBROM1700,

SOBROM1701, SOBROM1800, SOBROM2000, SOBROM2001, SOBROM2100, SOBROM2200, SOBROM2500, SOBROM2501, SOBROM3501, SOBROM3501, SOBROM3501, SOBROM3502, SOBROM3503, SOBROM3504, SOBROM3505, SOBROM3506, SOBROM3507, SOBROM3508, SOBROM4000, SOBROM4001, SOBROM5000, SOBROM5500, SOBROM6000, SOBROM6500, SOBROM6600, SOBROM6601, SOBROM7000, SOBROM7500, SOBROM7500, SOBROM7000, SOBROM7500, SOBROM7000, SOBROM7500, SOBROM7000, SOBROM

SOBROM7501, SOBROM7502, SOBROM7600, SOBROM7610, SOBROM7611, SOBROM7612, SOBROM7620, SOBROM7630,

SOBROM7631, SOBROM7700, SOBROM7800, SOBROM8000, SOBROM8001, SOBROM9000, SOBROM9500

Revision 4

Revision Date 27 Apr 2021

Key/Legend < Less Than > Greater Than

AICS Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 Carbon Dioxide

COD Chemical Oxygen Demand **deg C (°C)** Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm³ Grams per Cubic Centimetre

g/I Grams per Litre

HSNO Hazardous Substance and New Organism **IDLH** Immediately Dangerous to Life and Health **immiscible** Liquids are insoluable in each other.

inHg Inch of Mercury inH2O Inch of Water

K Kelvin **kg** Kilogram

kg/m3 Kilograms per Cubic Metre

Ib Pound

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

 $\mbox{\bf NIOSH}$ National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight