



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification

1.1 Product identifiers

Product Name : Sodium Bromide

CAS No. : 7647-15-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended uses : Laboratory chemicals

Uses advised against: Food, drug, pesticide or biocidal product use.

1.3 Details of the supplier of the safety data sheet

Company : Krishna Solvechem Limited.
B/503, Sahayog, S. V. Road,
Kandivali (West), Mumbai – 400067. India.

Telephone : +91-22-6123 0222

Email : exports@kscl.co.in

1.4 Emergency telephone number

Emergency Phone : +91-8657457330

SECTION 2: Hazards identification

2.1 Classification

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at



SECTION 3: Composition / information on ingredients

3.1

Component	CAS-No	Weight %
Sodium Bromide	7647-15-6	45%
Water	7732-18-5	55%

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhalation :	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
In case of skin contact :	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
In case of eye contact :	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion :	Make victim drink water (2 glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Notes to Physician : Treat symptomatically

SECTION 5: Firefighting effects

5.1 Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Unsuitable Extinguishing Media:	For this substance/mixture no limitations of extinguishing agents are given

5.2 Special hazards arising from the substance or mixture Hydrogen bromide gas, sodium oxides, Not combustible. Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters In the event of fire, wear self-contained breathing apparatus

5.4 Further information Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry. Hygroscopic .

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated



SECTION 8: Exposure controls/personal protection

8.1 Control parameters Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment -

Eye / Face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

Full contact

Material : Nitrile rubber

Minimum layer thickness : 0,11 mm

Break through time : 480 min

Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P1

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: crystalline Color: colorless
b) Odour	Odorless
c) Odour Threshold	No information available
d) pH	5,74 at 430 g/l at 22,5 °C
e) Melting point / freezing point	Melting point/range: 755 °C - lit.
f) Initial boiling point and	1.390 °C at ca.1.013 hPa



boiling range	
g) Flash point	Not applicable
h) Evaporation rate	No information available
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	No data available No data available
k) Vapour pressure	1 hPa at 806 °C
l) Vapour density	No data available
m) Relative density	No data available
n) Solubility	946 g/l at 25 °C - soluble
o) Partition coefficient: n octanol/water	No data available
p) Auto-ignition temperature	No information available
q) Decomposition temperature	> 750 °C -
r) Viscosity	Viscosity, kinematic: 2550 mm ² /s - OPPTS 830.7100 Viscosity, dynamic: No data available
s) Molecular formula	BrNa
t) Molecular Weight	102.89 g/mol
SECTION 10: Stability and Reactivity	
10.1 Reactive Hazard :	None known, based on information available
10.2 Chemical stability :	Stable under normal conditions.
10.3 Possibility of hazardous reactions :	Risk of explosion with: Alkali metals, halogen compounds. Generates dangerous gases or fumes in contact with : strong acids release of: hydrogen bromide
10.4 Conditions to avoid :	Avoid moisture. Heat. No information available
10.5 Incompatible materials:	No data available
10.6 Hazardous decomposition products :	In the event of fire: see section 5



SECTION 11: Toxicological information

11.1

Information on toxicological effects

Acute toxicity:

LD50 Oral - Rat - male and female - 4.200 mg/kg(OECD

Test Guideline 401)

LD50 Oral - Rat - 3.500 mg/kg

LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg(OECD

Test Guideline 402)

No data available

Skin corrosion/irritation

Skin : Rabbit

Result : No skin irritation – 4h

(US – EPA)

Serious eye damage / eye irritation

Eyes - Rabbit

Result: No eye irritation (OECD

Test Guideline 405)

Respiratory or skin sensitization

Maximization Test - Guinea pig Result:

negative

Does not cause skin sensitization.(OECD

Test Guideline 406)

Germ cell mutagenicity

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Mutagenicity (mammal cell test): chromosome aberration.Test

system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Test Type: unscheduled DNA synthesis assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 482

Result: negative

Test Type: Micronucleus test

Species: Mouse

Cell type: Bone marrow

Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral - NOAEL (No observed adverse effect level) - 100 mg/kg - LOAEL (Lowest observed adverse effect level) - 225 mg/kg

RTECS: VZ3150000

Effects due to ingestion may include: sedation

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1
Toxicity:

Toxicity to daphnia and other aquatic invertebrates	static test NOEC - Daphnia magna (Water flea) - \geq 1.000 mg/l - 48h (US-EPA)
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Toxicity to algae	ErC50 - Skeletonema costatum (marine diatom) - \rightarrow 440 mg/l - 72 h (OECD Test Guideline 201)
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12.2 Persistence and degradability:	The methods for determining biodegradability are not applicable to inorganic substances
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Bioaccumulation/	- 7 d at 25 °C - 53,11 mg/l (sodium bromide)
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Accumulation	Bioconcentration factor (BCF): 0,23
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12.3 Mobility:	No data available
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12.4 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 13: Disposal considerations

13.1 Waste treatment methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

14.1 UN number :	ADR/RID:		
	IMDG:		
	IATA:		
14.2 UN proper shipping name			
ADR/RID :	Not dangerous goods		
IMDG :	Not dangerous goods		
IATA :	Not dangerous goods		
14.3 Transport hazard class(es)	ADR/RID:	IMDG:	IATA:
14.4 Packaging group:	ADR/RID:	IMDG:	IATA:
14.5 Special precautions for user			
Further information			
Not classified as dangerous in the meaning of transport regulations.			

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
National legislation
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable
15.2 Chemical safety Assessment
For this product a chemical safety assessment was not carried out.



SECTION 16: Other information

16.1 Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.