

Safety Data Sheet

SDS has been prepared in accordance with Regulation (EC) No. 1907/2006

This Safety Data Sheet is written in reference to a sealed glass ampoule containing 10 ml of the product named below.

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Substance name: Aqueous solution of sodium bromide

Synonyms:	Product type:	Date revised: Jun 2022
Bromnatrium	Liquid density standard	Previous: Feb 2020
	EC No:	CAS No.:
Water	231-791-2	7732-18-5
Sodium bromide	231-599-9	7647-15-6

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

Relevant identified uses: For use in the calibration of density meters.

Uses advised against:

1.3 Details of the supplier of the Safety Data Sheet

Company: H&D Fitzgerald Ltd.

Address: Cefn Du, Tremeirchion, St Asaph, Denbighshire, LL17 0US, UK

Telephone #: +44 (0)1352 720 774
Email address: admin@density.co.uk

1.4 Emergency telephone number

+44 (0)1352 720 774

Section 2 Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No1272/2008 [CLP]:

Eye irritation (Category 2)

2.1.2 Classification according to European Directive 67/548/EEC as amended:

This substance is not classified as dangerous.

2.2 Label elements: None.

2.3 Other hazards: None.

Section 3 Composition / Information on ingredients					
Substance name	C.A.S. No.	EINECS No.	Index-No. in CLP Annex IV	Classification	Concentration
water	7732-18-5	231-791-2	-	Not classified	70%
Sodium bromide	7647-15-6	231-599-9	-	Not classified	30%
Formula:	NaBr				
Molecular Weight:	102.9 g/mol				

Section 4 First Aid measures

4.1 Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in

attendance.

Following inhalation: If breathed in, move person into fresh air. If symptoms develop, seek

medical advice.

Following ingestion: Do not seek to induce vomiting. If the victim is conscious, rinse mouth with

water. Seek medical advice.

Following eye contact: Wash eyes with large amounts of water or normal saline. If symptoms

develop, seek medical advice.

Following skin contact: Wash with soap and water. Remove contaminated clothing. If symptoms

develop, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

May be harmful if inhaled. May cause respiratory tract irritation. Following inhalation:

Following ingestion: May be harmful if swallowed. Following eye contact: May cause eye irritation.

Following skin contact: May be harmful if absorbed through skin. May cause skin irritation.

Delayed effects: No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Following ingestion: Do not induce vomiting. Consult a physician. Following inhalation: Do not induce vomiting. Consult a physician. Following eye/skin contact: If symptoms develop, consult a physician.

Section 5 Fire fighting measures

5.1 Extinguishing media

Extinguishing media: Use extinguishing media appropriate for surrounding fire

Unsuitable media:

5.2 Special hazards arising from the substance or mixture

Hazardous combustion

Not combustible

products:

5.3 Advice for firefighters

Special protective

None needed

equipment for fire-fighters:

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Protective equipment: None needed.

Personal precautions: Avoid contact with eyes.

6.2 Environmental precautions

None needed for the quantity supplied in an ampoule.

6.3 Methods and material for containment and cleaning up

Mop up liquid and place in waste disposal container. Use eye protection

during cleaning.

Section 7 Handling and storage

7.1 Precautions for safe handling

Handling precautions: Avoid contact with eyes.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions: Store ampoule in package until ready to use. Store in a cool place if

possible (less than 25°C)

7.3 Specific end use

Recommendations: Liquid density standard for calibration of density meters.

Section 8 Exposure controls and personal protection

Components with work place control parameters

No occupational exposure limits established.

Personal protective equipment

Eye/Face protection: Safety glasses are recommended to minimise eye contact.

Hand protection: Wash hands with soap before eating or drinking.Other skin protection: Use of protective clothing is good industrial practise.

Respiratory protection:

Hygiene measures: Wash hands with soap before eating or drinking.

Environmental exposure controls

No data available.

	Section 9 Physical an	d chemical properties	
9.1 Information on basi	c physical and chemical pro	perties	
Appearance:	Odour:	Odour threshold:	pH:
Colourless liquid	none	no data available	6.1
Freezing point:	Boiling point & range:	Flash point:	Evaporation rate:
< -20°C	≈105°C	not applicable	no data available
Flammability: not flammable	Upper/lower flammability or explosive limits: not applicable	Vapour pressure: Slightly lower than that of water at the same temperature	Vapour density: no data available
Density of liquid: ≈1200 kgm ⁻³	Solubility: no data available	Partition coefficient: n-octanol/water no data available	Auto-ignition temperature: not applicable
Decomposition temperature: no data available	Viscosity: no data available	Explosive properties: not applicable	Oxidising properties no data available

9.2 Other information

Miscibility with water: The solution mixes completely with water.

	Section 10 Stability and reactivity	
10.1 Reactivity	Non known	
10.2 Chemical stability	Stable under recommended storage conditions.	
10.3 Possibility of hazardous reactions		
	Reactions are unlikely at the concentration of the solution provided.	
10.4 Conditions to avoid	Avoid contact with strong acids.	
10.5 Incompatible materials	Reactions are unlikely at the concentration of the solution provided.	

10.6 Hazardous decomposition products

If the solution is evaporated to dryness, the resulting solid will release bromine if heated to a high temperature.

Section 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Inhalation: No data available

Ingestion: LD_{so}(rat): 3500 mg/kg. (for solid sodium bromide)

Skin corrosion/irritation: LD_{so}(rabbit): 2900 mg/kg (for solid sodium bromide) Essentially non-toxic

Serious eye damage/irritation: No data available
Germ cell mutagenicity: No data available

Carcinogenicity: IARC: No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

Reproductive toxicity: Reproductive toxicity – rat – Oral

Paternal Effects: Testes, epididymis, sperm duct

Specific target organ toxicity -

single exposure:

No data available

Specific target organ toxicity -

repeated exposure:

No data available

Aspiration hazard: No data available

Potential health effects

Inhalation:No data availableIngestion:No data availableEye contact:No data available

Skin contact: Bromide rashes resembling acne can occur after prolonged exposure.

Mutagenic effects:No data availableReproductive effects:No data availableSensitisation:No data availableAdditional information:RTECS: VZ3150000

Section 12 Ecological information

12.1 Toxicity

Toxicity to fishNo data available.Toxicity to daphniaNo data available.

and other aquatic invertebrates

12.2 Persistence and degradability

Degradability: Material does not show potential to bioconcentrate from water.

12.3 Bioaccumulative potential

Bioaccumulation: No data available

12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects No data available

	Section 13 Disposal considerations
General requirements:	Observe all national and local environmental regulations.
For small quantities:	Flush the aqueous solution down the drain / mop up with paper and dispose of as none hazardous waste. Observe all national and local environmental regulations.
Contaminated packaging:	Dispose of as unused product.

Section 14 Transport information	
Not dangerous goods.	

Section 15 Regulatory information 15.1 Safety health and environmental regulations/legislation specific for the substance or mixture This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. 15.2 Chemical safety assessment No chemical assessment has been carried out for this substance by the supplier.

	Section 16 Other information	
Reason for revision:	Updated to comply with Regulation (EC) No. 1907/2006.	
Disclaimer		

H&D Fitzgerald Ltd believes that data given here is accurate. It is derived from published information about sodium bromide. No warranty, expressed or implied, is intended. The data is provided for your information and consideration when using aqueous sodium bromide as a liquid density standard for the calibration of density meters. H&D Fitzgerald Ltd assumes no legal responsibility for its use.