



SODIUM HYPOBROMITE

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Sodium Hypobromite

Product code. : 892215

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

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : Central Drug House (P) Ltd

7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002

INDIA

Telephone : +91 11 49404040

Email : care@cdhfinechemical.com

Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1. Classification of the Substance or Mixture (in accordance with OSHA HCS 29 CFR 1910.1200)

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

	Hazard		
Hazard Class	Category	Statement	Precautionary Statements
Acute Toxicity - Inhalation	Category 3	H331	P261, P271, P304+P340, P311, P321,P403+P233, P405, P501
Skin Corrosion / Irritation	Category 2	H315	P264, P280, P302+P352, P321, P332+P313,P362
Hazardous to the Aquatic Environment (Acute)	Category 3	H402	P273, P501
Hazardous to the Aquatic Environment (Chronic)	Category 3	H402	P273, P501

2.1. GHS Label Elements

Pictograms:



Signal Word: Danger

Hazard Statements:

Hazard Number	Hazard Statement
H315	Causes skin irritation.
H331	Toxic if inhaled.
H402	Harmful to aquatic life.

Precautionary Statements:

Precautionary Number	Precautionary Statement	
P261	Avoid breathing dust, fumes or mist.	
P264	Wash arms, hands and face thoroughly after handling.	
P271	Use only outdoors or in a well-ventilated area.	
P273	Avoid release to the environment.	
P280	Wear protective gloves and eye protection.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P311	Call a POISON CENTER or physician.	
P321	Specific treatment (Wash areas of contact with water immediately).	
P332+P313	If skin irritation occurs: Get medical attention.	
P362	Take off contaminated clothing and wash it before reuse.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P405	Store locked up.	
P501	Dispose of contents in accordance with local, state, federal and international	
regulations.		

2.2. WHMIS Classification

WHMIS classification is not included based on the recommended option (Option 4) found in the Canada Gazette Part II, Vol. 149, No.3, page 458

2.3. Hazards not Otherwise Classified or Covered by GHS

Data not available.

SECTION 3: Composition/information on ingredients

3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Water	H ₂ O	18.01 g/mol	7732-18-5	98.34%
Bromine	Br ₂	159.80 g/mol	7726-95-6	0.92%
Sodium Hydroxide	NaOH	39.99 g/mol	1310-73-2	0.74%

SECTION 4: First aid measures

4.1. General First Aid Information

Eye Contact: No action required to be taken. If necessary, rinse eyes with water.

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water.

Ingestion: No action required to be taken. If necessary, dilute with water.

4.2. Most Important Symptoms and Effects, Acute and Delayed

May cause mild irritation to areas of contact.

4.3. Medical Attention or Special Treatment Needed

Specific treatment (Wash areas of contact with water immediately).

SECTION 5: Firefighting measures

5.1. Extinguishing Media

Not considered to be a fire or explosion hazard.

5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

5.3. Special Protective Equipment for Firefighters

Wear protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

SECTION 6: Accidental release measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

6.2. Cleanup and Containment Methods and Materials

Absorb with suitable material and dispose of in accordance with local regulations.

SECTION 7: Handling and storage

7.1. Precautions for Safe Handling and Storage Conditions

Store locked up.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Bromine (7726-95-6)	TWA	USA	0.1 ppm TWA 0.7 mg/m* TWA	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Bromine (7726-95-6)	TLV-STEL	USA	0.2 ppm STEL	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Bromine (7726-95-6)	TLV-TWA	USA	0.1 ppm TWA	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Sodium Hydroxide (1310-73-2)	TWA	USA	2 mg/m* TWA	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Sodium Hydroxide (1310-73-2)	TLV-Ceiling	USA	2 mg/m* Ceiling	ACGIH - Threshold Limit Values - Ceilings (TLV-C)

8.1. Exposure Controls

Engineering Controls : Use only outdoors or in a well-ventilated area.

Respiratory Protection : No specific controls are needed. Normal room ventilation is adequate

Skin ProtectionWear protective gloves and eye protection.Eye ProtectionWear protective gloves and eye protection.

8.2. Personal Protective Equipment

Wear protective gloves and eye protection.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Yellow liquid Physical State Liquid

Odor Data not available.
Odor Threshold Data not available.
pH: Data not available.

Melting/Freezing Point 0.0°C
Initial Boiling Point /Range 100°C - 100°C
Flash Point Data not available.

Evaporation Rate
Flammability
Flammability/Explosive Limits
Vapor Pressure
Vapor Density

Data not available.

Relative Density 1.0
Solubility Miscible

Partition Coefficient (n-Octanol/Water) Data not available.
Auto-Ignition Temperature Data not available.
Pecomposition Temperature Data not available.
Viscosity Data not available.
Explosive Properties Data not available.
Oxidizing Properties Data not available.

SECTION 10: Stability and reactivity

10.1 Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

10.2. Possibility of Hazardous Reactions

Data not available.

10.3. Conditions to Avoid and Incompatible Materials

Protect from freezing and physical damage.

10.4. Hazardous Decomposition Products

May emit irritating fumes when heated to decomposition.

SECTION 11: Toxicological information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Not applicable.

Acute Toxicity - Dermal Exposure:

Not applicable.

Acute Toxicity - Inhalation Exposure:

Toxic if inhaled. Avoid breathing dust, fumes or mist. Use only outdoors or in a well-ventilated area. IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately).

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Acute Toxicity - Other Information:

Data not available.

Skin Corrosion and Irritation:

Causes skin irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF ON SKIN: Wash

with plenty of soap and water. Specific treatment (Wash areas of contact with water immediately). If skin irritation

occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

Serious Eye Damage and Irritation:

Not applicable.

Respiratory Sensitization:

Not applicable.

Skin Sensitization:

Not applicable.

Germ Cell Mutagenicity:

Not applicable.

Carcinogenicity:

Not applicable.

Reproductive Toxicity:

Not applicable.

Specific Target Organ Toxicity from Single Exposure:

Not applicable.

Specific Target Organ Toxicity from Repeated Exposure:

Not applicable.

Aspiration Hazard:

Not applicable.

Additional Toxicology Information:

Data not available.

SECTION 12: Ecological information

12.1 Ecotoxicity

Harmful to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and International regulations. Harmful to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

12.2. Persistence and Degradability

Data not available.

12.3. Bioaccumulative Potential

Data not available.

12.4. Mobility in Soil

Data not available.

12.5. Other Adverse Ecological Effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste Treatment Methods

Data not available.

SECTION 14: Transport information

14.1. Transportation by Land - Department of Transportation (DOT, United States of America)

Not regulated according to DOT Regulations.

14.2. Transportation by Air – International Air Transport Association (IATA)

UN Number: N/A

Proper Shipping Name:

Hazard Class: Packing Group:

Hazard Placard Labels:

SECTION 15: Regulatory information

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Bromine (CAS # 7726-95-6): 500 lb EPCRA RQ

Bromine (CAS # 7726-95-6): 500 lb TPQ

15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Sodium Hydroxide (CAS # 1310-73-2): 1000 lb final RQ; 454 kg final RQ

Bromine (CAS # 7726-95-6): 10 curie final RQ; 0.37 TBq final RQ

Bromine (CAS #7726-95-6): 100 curie final RQ; 3.7 TBq final RQ

Bromine (CAS # 7726-95-6): 1000 curie final RQ; 37 TBg final RQ

15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Bromine (CAS # 7726-95-6): 1.0 % de minimis concentration

15.5. Massachusetts Right-to-Know Substance List

Sodium Hydroxide (CAS # 1310-73-2): Present

Bromine (CAS # 7726-95-6): Extraordinarily hazardous

15.6. Pennsylvania Right-to-Know Hazardous Substances

Sodium Hydroxide (CAS # 1310-73-2): Environmental hazard

Sodium Hydroxide (CAS # 1310-73-2): Present Bromine (CAS # 7726-95-6): Environmental hazard

Bromine (CAS # 7726-95-6): Present

Water (CAS # 7732-18-5): Present

15.7. New Jersey Worker and Community Right-to-Know Components

Sodium Hydroxide (CAS # 1310-73-2): corrosive

Sodium Hydroxide (CAS # 1310-73-2): sn 1706

Bromine (CAS # 7726-95-6): corrosive Bromine (CAS # 7726-95-6): sn 0252

Bromine (CAS # 7720-95-6): SN 0252

Bromine (CAS # 7726-95-6): SN 0252 TPQ: 500 lb

15.8. California Proposition 65

Not listed.

15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Sodium Hydroxide (CAS # 1310-73-2): Present

Bromine (CAS # 7726-95-6): Present

Water (CAS # 7732-18-5): Present

15.10. United States of America Toxic Substances Control Act (TSCA) List

Sodium Hydroxide (CAS # 1310-73-2): Present

Bromine (CAS # 7726-95-6): Present

Water (CAS # 7732-18-5): Present

15.11. European Inventory of Existing Commercial Chemical Substances (EINECS),

European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Not listed.

SECTION 16: Other information

16.1. Full Text of Hazard Statements and Precautionary Statements

Causes skin irritation. Toxic if inhaled. Harmful to aquatic life.

Avoid breathing dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves and eye protection.

IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep container tightly closed. Store locked up

Dispose of contents in accordance with local, state, federal and international regulations.

16.1. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC) Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC) Not Applicable.

Biohazardous Infectious Materials Hazard Class Not Applicable.

16.2. National Fire Protection Association (NFPA) Rating

Health: 2

Flammability: 0

Reactivity: 1

Special Hazard:



Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.