



# SAFETY DATA SHEET

## 100 %

### SODIUM BROMIDE ANHYDROUS

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. PRODUCT IDENTIFIER

Product name: Sodium Bromide Anhydrous  
Product No.: SBRO  
CAS-No.: 7647-15-6  
EC No.: 231-599-9  
Chemical Formula: NaBr

##### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Recommended use: Laboratory chemicals  
For professional use only

##### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

HD Chemicals LTD  
UNIT 9 Scott Business Park  
PL2 2PB Plymouth UK

Contact Person responsible for SDS: Mr Peter Konefal, e-mail: [contact@hdchemicals.co.uk](mailto:contact@hdchemicals.co.uk)

#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification 67/548/EEC: Not Classified

Classification – EC 1272/2008: Not Classified

##### 2.2. LABEL ELEMENTS

No labelling requirements

##### SIGNAL WORDS

Not Classified

**RISK PHRASES**

Not Classified

**HAZARD PHRASES**

Not Classified

**PROTECTION PHRASES**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**SAFETY PHRASES**

Not Classified

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

67/548/EEC/1999/45/EC

**Composition information – main constituents**

Substance name	Mol. Formula	Typical conc. (%w/w)	EINECS No.	CAS-No.	Classification
Sodium Bromide Anhydrous	NaBr	100%	231-599-9	7647-15-6	Not Classified

EC 1272/2008

**Composition information – main constituents**

Substance name	Mol. Formula	Typical conc. (%w/w)	EINECS No.	CAS-No.	Classification
Sodium Bromide Anhydrous	NaBr	100%	231-599-9	7647-15-6	Not Classified

**SECTION 4: FIRST AID MEASURES****4.1. DESCRIPTION OF FIRST AID MEASURES**

**First-aid measures general:** Consult a physician when you feel unwell.



<b>Inhalation:</b>	Remove the casualty to fresh air immediately and ensure in a position comfortable for breathing. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
<b>Ingestion:</b>	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
<b>Skin contact:</b>	Remove all contaminated clothes and footwear. Wash off immediately with plenty of water for at least 15 minutes. Seek medical attention if skin irritation or symptoms persist.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses and continue rinsing. If eye irritation persists, consult a specialist.

#### **4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

<b>Inhalation:</b>	May cause respiratory tract irritation.
<b>Ingestion:</b>	Harmful if swallowed. May cause headache, dizziness, drowsiness, vomiting and nausea.
<b>Skin contact:</b>	May cause skin irritation.
<b>Eye contact:</b>	May cause eye irritation.

Not expected to present a significant hazard under anticipated conditions of normal use.

#### **4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

Treat symptomatically.

### **SECTION 5: FIREFIGHTING MEASURES**

#### **5.1. EXTINGUISHING MEDIA**

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet.

#### **5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

The product is non-combustible but thermal decomposition can lead to release of irritating gases and vapours: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), hydrogen bromide gas, sodium oxides.



### **5.3. ADVICE FOR FIRE-FIGHTERS**

Fight fire with normal precautions from a reasonable distance. In the event of fire, wear self-contained breathing apparatus and full protective clothing to prevent contact with skin, body and eyes.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Wear appropriate protective equipment (splash goggles, protective suit, boots, gloves and self-contained breathing apparatus) to avoid contamination of skin, eyes and clothing. Provide adequate ventilation of the workplace. Avoid contact with skin and eyes. Avoid breathing dust, vapor, mist or gas. Avoid dust formation. The product should not be released into the environment. Keep unsecured persons away. Evacuate personnel to a safe place, take preventive measures immediately and consult an expert.

### **6.2. ENVIRONMENTAL PRECAUTIONS**

Avoid release to the environment. Do not discharge into drains / surface waters or groundwater. Do not discharge into soil / subsoil. Prevent further leakage or spillage if safe to do so. Use appropriate container to avoid environmental contamination. Local authorities should be notified if a significant spill cannot be contained or if the product has caused environmental pollution (sewers, waterways, soil).

### **6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

Avoid dust formation. Sweep or vacuum the powder and collect in a suitable container for disposal. Rinse contaminated area. Provide adequate ventilation.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. PRECAUTIONS FOR SAFE HANDLING**

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation of the working area. Avoid dust and dust formation. Do not inhale dust / fume / mist / gas. Wear personal protective equipment. Avoid contact with eyes and skin. Do not eat or drink during the process, and then wash your hands with appropriate cleaning agents. Remove contaminated clothing and shoes and wash clothes before reuse. Always wash hands before breaks and at the end of work. Do not store in unlabeled containers.

### **7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Store in a cool, dry area. Keep container tightly closed. Keep away from incompatible products.

### **7.3. SPECIFIC END USE(S)**

See section 1.2

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. CONTROL PARAMETERS/EXPOSURE GUIDELINES**

Occupational Exposure Limit Values (Sodium Bromide Anhydrous):

Type	Exposure	Value	Population	Effect
DNEL	Oral	N/A	Consumers	N/A
DNEL	Inhalation	N/A	Consumers	N/A
DNEL	Inhalation	N/A	Workers	N/A

**Engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the working day. Ensure adequate ventilation of the working area.



DUST MASK



FACE SHIELD



PROTECTION WEAR



BREATHING APPARATUS



HAND PROTECTION

**Protective equipment:**

Use protective chemical safety goggles (European standard - EN 166), face shield, gloves (European standard - EN 374), long sleeved clothing to prevent skin, body and eyes exposure.

**Respiratory equipment:**

Respiratory protection not required in normal conditions, but when vapours or aerosols are generated must use appropriate certified respirators, which are NIOSH/MSHA or European Standard EN 149 approved respirator.

**Skin and body protection:**

Wear appropriate protective gloves and clothing to prevent skin exposure. Wear impervious protective clothing (long sleeved clothing, chemical resistant apron, anti static boots). Wear appropriate protective work gloves when handling material to prevent skin contact. The glove material has to be impermeable and resistant to the product. Protective gloves should be replaced at first signs of wear. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact. Wash and dry hands.

**Eye/Face protection:**

Approved chemical safety goggles or face protection.



## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid, Powder
Colour:	White
Odour:	Odourless
Initial boiling point (°C):	1390 °C
Melting point (°C):	747 °C
Freezing point:	No data available
Relative density:	3.21 g/cm <sup>3</sup>
Specific gravity / density:	Not available
Vapour density:	Not available
Vapour pressure:	Not available
Flash point (°C):	Not applicable
Molecular mass:	102.89 g/mol
Auto-ignition temperature:	Not applicable
Oxidizing properties :	Not available
Decomposition temperature:	Not available
Molecular formula:	NaBr

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. REACTIVITY

Sodium Bromide is stable under normal conditions of use, storage and transport.

### 10.2. CHEMICAL STABILITY

Stable under recommended storage conditions.

### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

When heated can decompose. May liberate toxic gases.

### 10.4. CONDITIONS TO AVOID

To avoid thermal decomposition, do not overheat. Avoid incompatible products. Keep away to moisture and water.



## 10.5. INCOMPATIBLE MATERIALS

May liberate toxic gases. Keep away from incompatible materials such as strong acids, strong oxidizing agents, alkali metals, halogens

## 10.6. HAZARDOUS DECOMPOSITION

The product is non-combustible but thermal decomposition can lead to release of irritating gases and vapours: carbon monoxide, carbon dioxide (CO<sub>2</sub>), hydrogen bromide gas, sodium oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

<b>TOXIC DOSE</b>	<b>LD50 Oral - Rat – 3500 mg/kg</b> <b>LD50 Dermal - Rabbit – &gt; 2000 mg/kg</b>
<b>Inhalation:</b>	May cause respiratory tract irritation.
<b>Ingestion:</b>	Harmful if swallowed. May cause headache, dizziness, drowsiness, vomiting and nausea.
<b>Skin contact:</b>	May cause skin irritation.
<b>Eye contact:</b>	May cause eye irritation.
<b>Mutagenic Effects:</b>	Not mutagenic.
<b>Reproductive Effects:</b>	No information available.
<b>Developmental Effects:</b>	No information available.
<b>Teratogenicity:</b>	No information available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. TOXICITY

**Aquatic Toxicity:** No data available.

### 12.2. PERSISTENCE AND DEGRADABILITY

The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.3. BIOACCUMULATIVE POTENTIAL

No data available for this product.

### 12.4. MOBILITY

Water soluble. May be absorbed into soil.



## 12.5. RESULTS OF PBT AND vPvB ASSESSMENT

No data available.

## 12.6. OTHER ADVERSE EFFECTS

Not determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste disposal recommendations:** Disposal of Sodium Bromide should be in accordance with local and national legislation. Processing, use or contamination of this product may change the waste management options. Should not be released into the environment. Do not discharge into waterways or sewer systems. Mixing with other materials or other alterations to pure product may significantly change the characteristics of the material. Empty packaging can have residues and are subject to proper waste disposal. Do not re-use empty containers.

Uncleaned packaging: Disposal must be made according to official regulations.

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

### ADR/RID

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

### IATA

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

Environmental hazards:	Not applicable
Special precautions for user:	Not applicable





## SECTION 15: REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.

### 15.2 CHEMICAL SAFETY ASSESSMENT

For this product a chemical safety assessment was not carried out.

## SECTION 16: OTHER INFORMATION

### General information

The information contained in this safety data sheet is provided in accordance with the requirements of the regulations. The product should not be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instruction. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

### Revision Comments

This information is provided in a revised format to that previously produced.

Revision Date: 01/08/2021

Revision: 01

Safety Data Sheet Status Approved.

Date printed 01/08/2021

Signature Initials P.K.

### DISCLAIMER:

If this product is re-distributed and re-formulated for sale, details of its hazards and recommended methods for safe handling must be passed to customers. Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by a work activity using this product is undertaken before this product is used.



**NOTE:**

The information contained in this Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other Health & Safety Legislation (e.g. the Health and Safety at Work Act,1974;the control of Substances Hazardous to Health Regulations,1988). The data given here is based on current knowledge and experience. The purpose of this data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.