



SAFETY DATA SHEET

100%

POTASSIUM BROMIDE

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

1.1. PRODUCT IDENTIFIER

Product name: Potassium Bromide
Product No.: POTBRO
CAS-No.: 7758-02-3
EC No.: 231-830-3
Synonym: Bromide Salt of Potassium, Hydrobromic Acid, Potassium Salt
Chemical Formula: KBr

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

Recommended use: As a veterinary drug;
As an antiepileptic medication for dogs;
In the manufacturing of photographic papers;
In process engraving and lithography;
Spectroscopy;
As an analytical lab reagent.

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

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification 67/548/EEC: Xi; R36



Classification – EC 1272/2008: Serious Eye Damage/Irritation; Category 2A (H319)

2.2. LABEL ELEMENTS



SIGNAL WORDS

Warning

RISK PHRASES

R36 Irritating to eyes

HAZARD PHRASES

H319 Causes serious eye irritation

PROTECTION PHRASES

P280 Wear protective gloves/protective clothing/eye protection/face protection

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 If eye irritation persists: Get medical advice/attention

SAFETY PHRASES

None

**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
Potassium Bromide	KBr	100%	231-830-3	7758-02-3	Xi; R36

EC 1272/2008

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

First-aid measures general: Consult a physician when you feel unwell. Show this safety data sheet to the doctor in attendance.

Inhalation: Remove the person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.

Ingestion: DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. If conscious, rinse mouth thoroughly. Have exposed individual drink sips of water. Seek medical attention.

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash off immediately with plenty of soap and water for at least 15 minutes. Seek medical attention if irritation or symptoms persist.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.



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

Inhalation:	May cause respiratory irritation, shortness of breath and cough.
Ingestion:	Nausea, vomiting and headache may occur.
Skin contact:	May cause irritation to skin.
Eye contact:	Causes serious eye irritation.

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, carbon dioxide (CO₂), dry chemical, foam or sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Non-combustible. As a result of combustion or thermal decomposition reactive sub-products (irritating gases and vapours) are created that can become highly toxic and consequently, can present a serious health risk.

5.3. ADVICE FOR FIRE-FIGHTERS

Fight fire with normal precautions from a reasonable distance. Wear suitable respiratory equipment when necessary. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear suitable protective equipment. Splash goggles, protective suit, boots and gloves to prevent any contamination of skin, eyes and personal clothing. Ensure adequate ventilation of the working area. Avoid contact with skin and eyes. Avoid breathing vapours, mist or gas. Avoid formation of dust. Keep unprotected persons away.



6.2. ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment. Do not allow to enter sewers/ surface or ground water. Do not allow to enter into soil/subsoil. Prevent further leakage or spillage if safe to do so. Use appropriate container to avoid environmental contamination.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Dispose of as normal waste. Ensure adequate ventilation.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust. Do not inhale dust/smoke/mist. Ensure adequate ventilation of the working area. Do not handle in a confined space. Wear personal protective equipment. Avoid contact with eyes and skin. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products. Keep away from sources of ignition - no smoking. Do not store in unlabeled containers.

For precautions see section 2.2.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Avoid sources of heat, radiation, static electricity and contact with food. Avoid exposure to moisture.

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 (Potassium Bromide):

CAS NO	Exposure limit	Value	Name of Agent
7758-02-3	TWA – 8 Hrs	4.75 mg/m ³	Inhalation

7758-02-3	STEL – 15 Min	N/A	N/A
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Engineering controls:

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before breaks and at the end of the working day. Keep away from foodstuffs, beverages and feed.



EYE PROTECTION



FACE SHIELD



RESPIRATOR



PROTECTION WEAR



HAND PROTECTION

Protective equipment:

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

Respiratory equipment:

Respiratory protection not required but when worker are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly.

Skin and body protection:

Wear appropriate protective gloves and clothing to prevent skin exposure. Gloves must be inspected prior to use. Ensure gloves are suitable for the task: chemical compatability, dexterity, operational conditions. Glove material - PVC, rubber or neoprene. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact.

Eye/Face protection:

Wear appropriate well-fitting protective eye glasses or chemical safety goggles as described by EN166 (EU Standard). Ensure eye bath is to hand.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid
Colour:	White
Odour:	Odourless
Initial boiling point (°C):	No data available
Melting point (°C):	734°C
Freezing point:	No data available
Relative density:	2.74 g/cm ³
Specific gravity / density:	Not available
Vapour density:	Not available
Vapour pressure:	Not available
Flash point (°C):	Not available
Molecular mass:	119.002 g/mol
Auto-ignition temperature:	Not applicable
Oxidizing properties:	Not available
Decomposition temperature:	Not available
Molecular formula:	KBr

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

Potassium Bromide is non-reactive under normal conditions of use, storage and transport.

May react slowly with mineral acids.

10.2. CHEMICAL STABILITY

This product is stable under normal temperature conditions and under recommended usage and storage.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

May liberate toxic gases in contact with acids, oxidants, halogen-halogen compounds.



10.4. CONDITIONS TO AVOID

Avoid sources of heat, radiation, static electricity and contact with food. Avoid exposure to moisture.

10.5. INCOMPATIBLE MATERIALS

Strong bases, oxidizing agents, strong mineral acids.

10.6. HAZARDOUS DECOMPOSITION

Non-combustible. As a result of combustion or thermal decomposition reactive sub-products (irritating gases and vapours) are created that can become highly toxic and consequently, can present a serious health risk. Potassium oxides, halogenated compounds, hydrogen bromide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

TOXIC DOSE	LD50 Oral – Rat – 3070 mg/kg
Inhalation:	May cause respiratory irritation, shortness of breath and cough.
Ingestion:	Nausea, vomiting and headache may occur.
Skin contact:	May cause irritation to skin.
Eye contact:	Causes serious eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Aquatic Toxicity:

Toxicity to freshwater fish: LC50: > 30 mg/l, 96h (Pimephales promelas)

Toxicity to water flea: EC50: > 30 mg/l, 96h (Daphnia magna)

12.2. PERSISTENCE AND DEGRADABILITY

Persistence is unlikely. Degradability is not relevant for inorganic substances.

12.3. BIOACCUMULATIVE POTENTIAL

Bioaccumulation is unlikely.



12.4. MOBILITY

The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

This product is not identified as a PBT/vPvB substance.

12.6. OTHER ADVERSE EFFECTS

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal recommendations: Disposal of potassium 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. Dispose of container and unused contents in accordance with applicable member state and local requirements. Do not store in unlabeled containers. Dispose of in accordance with the European Directives on waste. Dispose of in accordance with local regulations.

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

SECTION 14: TRANSPORT INFORMATION

IMDG

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

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) (as amended).

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 (as amended).

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: 01/10/2018

Revision: 01

Safety Data Sheet Status Approved.

Date printed 01/10/2018

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.