

Safety Data Sheet

1 Identification of the substance and the company

Description:

Product name: Potassium Bromide

Trade names/synonyms: KBr

Application:

Laboratory chemicals.

Company identifier:

Hilger Crystals

Unit R1 Westwood Estate Margate Kent CT9 4JL UK

Tel.: +44 (0) 1843 231166 email Sales@hilger-crystals.co.uk

Web: www.hilger-crystals.co.uk

Emergency information:

Contact as above (Mon-Thurs 8.00 – 17.00, Fri 8.00- 12:00)

In the event of a medical enquiry please contact your local doctor or hospital A&E department.

2 Hazards Identification

Classification of the substance:

H319 - Can cause serious eye irritation.

Label elements:



P262 Do not breathe dust/fume/gas/mist/vapours/spray.

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

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

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Other hazards:

In accordance with Annex XIII of the REACH Regulation, inorganic substances do not require assessment

Toxicity to Soil Dwelling Organisms

Toxic to terrestrial vertebrates

3 Composition-Information on Ingredients

Component Name	CAS number	%	EC number	EU index	UN number
Potassium Bromide	7758-02-3	>95%	231-830-3	Not Listed	Not Listed

4 First-aid measures

Description of first-aid measures:

General: Consult a doctor for specific advice.

Eyes: Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention if discomfort persists.

Skin: Wash thoroughly with soap and water. Dry area with clean towel. Remove contaminated clothing and wash before re-use.

Inhalation: Remove to fresh air. Perform artificial respiration if breathing has stopped.

When breathing is difficult, properly trained personnel may administer oxygen. Keep affected person warm and at rest. Obtain medical attention.

Ingestion: Wash out mouth thoroughly with water. Obtain Medical Attention immediately.

Most important symptoms and effects, both acute and delayed: Refer to Label elements above and to toxicological information.

Indication of any immediate medical attention and special treatment required: No Data.

5 Firefighting measures

Extinguishing media:

This product does not burn. Thermal decomposition can lead to release of irritating gases and vapours.

Special hazards arising from the substance:

Halogenated compounds, Potassium oxides.

Advice for firefighters:

Use breathing apparatus if necessary.

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6 Accidental release measures

Emergency procedures, personal precautions and protective equipment:

Wear suitable protective clothing & equipment as listed under Section 8. Avoid making dust.

Environmental precautions:

Prevent further leakage or spillage. Do not let product enter drains or discharge to the environment.

Methods and materials for the containment and cleaning up:

Take up and containerise for proper disposal. Containerise any cleaning materials used for proper disposal.

7 Handling & storage

Precautions for safe handling:

Protect against physical damage. Avoid generating dust. Keep away from heat. Avoid contact with skin and eyes.

Conditions for safe storage including any incompatibilities:

Keep in airtight storage, protected from moisture, cool well ventilated area.

Specific application:

Laboratory use.

8 Exposure controls/personal protection

Control parameters:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure controls:

Protective PVA gloves and the use of a laboratory coat is suggested. Safety goggles or safety glasses with side shields are required if there is any possibility of chipping or dust creation. Respirators must be worn when the threshold limit is exceeded.

Provide adequate general mechanical ventilation, and local exhaust ventilation. Wash hands immediately after handling the product.

9 Physical & chemical properties

Information on basic physical and chemical properties

Appearance: White, no odour.

Flash point: Not Applicable

Boiling point: 1435°C

Flammability: Not Applicable

Melting point: 734°C

Explosive properties: Not Applicable

Specific gravity: 2.75g/mL

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Vapour pressure: Negligible at 25°C
Solubility in water: 650g/100g water at 20°C
pH in aqueous solution: Not determined
Other safety information: None

10 Stability & reactivity

Reactivity: None known.
Chemical stability: Stable under normal conditions of storage and use. Dissolves in water.
Possibility of hazardous reactions: None known
Conditions to avoid: Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.
Incompatible materials: Strong oxidising agents.
Hazardous decomposition products: Halogenated compounds. Potassium oxides.

11 Toxicological information

Information on toxicological effects:
 Care must be exercised when creating dust or particles. Inhalation of dust may irritate respiratory system. Irritant by ingestion and inhalation of dust particles.

Carcinogenicity:
 No evidence of carcinogenic properties.

Toxic dose – LD50:
 3070 mg/kg (oral/rat)

Mutagenicity/teratogenicity:
 No evidence of reproductive effects.

12 Ecological information

Toxicity:
 Danger to drinking water due to solubility. Harmful to aquatic organisms. The product contains the following hazardous substances.

Component	Freshwater Fish	Water Flea	Freshwater Algae
Potassium bromide	Pimephales promelas: LC50 >30mg/L 96 h	EC50: >30 mg/L 96 h	

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13 Disposal considerations

Waste treatment methods:

Chemical residues are generally classified as special waste and are covered by regulations which vary according to location. Contact your local waste disposal authority for advice or pass to a chemical disposal company.

14 Transport information

UN Number: None

UN Proper shipping name: Not a Hazardous Material for transportation

Transport hazard class: None

Packing group: None

Environmental hazards: None

Special user precautions: None

Transport in bulk Marpol / IBC: No Data

15 Regulatory information

Safety, health and environmental regulations/legislation for the substance: TSCA:

Listed in the TSCA inventory

16 Other information

Revision date: September 2023

The above information is believed to be true and correct and is supplied as a guide for information only, it does not purport to be all inclusive.