# SAFETY DATA SHEET

## *POTASSIUM BROMIDE OPTICAL CRYSTAL*

***According to Regulation (EC) No.1907/2006 (REACH)***

*Revision 2026: Issued 6th July 2026*

## 1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

**1.1. PRODUCT IDENTIFIERS:**

Product Name: Potassium Bromide Optical Crystal

Synonyms, Trade Names: KBr, Bromide

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

Identified Uses: Optical Material for manufacture of Optical Components.

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

Company: CRYSTRAN LTD, 1 Broom Road Business Park, Poole, Dorset UK BH12 4PA

☎ +44 1202 307650

**1.4. EMERGENCY TELEPHONE NUMBER**

Emergency Phone: ☎ +44 1202 307650 (Monday to Friday 08:30 to 17:00 GMT)

Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department. The attending health professional will be able to contact the National Poisons Information Service.

## 2. HAZARDS IDENTIFICATION

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

No Hazardous Product as specified in Directive 67/548/EEC.

**2.2. LABEL ELEMENTS**

Precautionary Statements:

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

**2.3. OTHER HAZARDS**

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. SUBSTANCES**

| Component Name | CAS number | % | EC number (EINECS) | EU index | UN number |
|---|---|---|---|---|---|
| Potassium Bromide | 7758-02-3 | 100% | 231-830-3 | - | - |

## 4. FIRST AID MEASURES

**4.1. DESCRIPTION OF FIRST AID MEASURES**

GENERAL: Consult a doctor for specific advice.

EYES: Irrigate thoroughly with water for at least 15 minutes. If discomfort persists obtain medical attention.

SKIN: Wash thoroughly with soap and water.

INHALATION: Remove to fresh air. Obtain medical attention.

INGESTION: Wash out mouth thoroughly with water. In severe cases obtain Medical Attention.

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

Refer to Section 2.2 and to section 11.

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

No Data.

## 5. FIRE FIGHTING MEASURES

**5.1. EXTINGUISHING MEDIA**

This product does not burn.

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

None Known

**5.3. ADVICE FOR FIREFIGHTERS**

Use breathing apparatus if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

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

None

**6.2. ENVIRONMENTAL PRECAUTIONS**

Prevent further leakage or spillage.

**6.3. METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

Dispose of as normal waste.

**6.4. REFERENCE TO OTHER SECTIONS**

None

## 7. HANDLING AND STORAGE

**7.1. PRECAUTIONS FOR SAFE HANDLING:**

**7.2.** Protect against physical damage and avoid generating dust.

**7.3. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Keep in an airtight container and protected from moisture.

**7.4. SPECIFIC END USES**

Optical Material for Manufacture of Optical Components.

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

**8.1. CONTROL PARAMETERS**

**OCCUPATIONAL EXPOSURE LIMITS (OEL)** = Not Assigned

**EXPOSURE CONTROLS**

Protective gloves made of PVA are required. 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 AND CHEMICAL PROPERTIES

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

| | | | |
|---|---|---|---|
| APPEARANCE : | Clear geometric shapes, no odour. | FLASH POINT: | Not Applicable |
| BOILING POINT (760mm Hg) | 1380°C | FLAMMABILITY: | Not Applicable |
| MELTING POINT: | 730°C | EXPLOSIVE PROPERTIES: | Not Applicable |
| SPECIFIC GRAVITY: | 2.75 g/mL | VAPOUR PRESSURE: | Negligible at 25°C |
| SOLUBILITY IN WATER: | Very soluble, 53.48g/100g water at 0°C | pH IN AQUEOUS SOLUTION: | Not determined |

**9.2. OTHER SAFETY INFORMATION**

None

## 10. STABILITY AND REACTIVITY

**10.1. REACTIVITY**
Reacts slowly with mineral acids.

**10.2. CHEMICAL STABILITY**
Stable under normal conditions of storage and use.

**10.3. POSSIBILITY OF HAZARDOUS REACTIONS**
None known

**10.4. CONDITIONS TO AVOID**
Avoid strong acids .

**10.5. INCOMPATIBLE MATERIALS**
Strong Mineral Acids.

**10.6. HAZARDOUS DECOMPOSITION PRODUCTS**
Normally none.

## 11. TOXICOLOGICAL INFORMATION

**11.1. INFORMATION ON TOXICOLOGICAL EFFECTS**

Animal experiments have shown that lungaveolitis may occur after subacute high exposure (50mg/m$^3$) to dust. No toxicological effects were observed after 4 weeks subacute exposure at 10mg/m$^3$. Nevertheless, particular care should be exercised when machining and creating dust or particles.

**TOXIC DOSE - LD50** > 3000 mg/kg (oral/rat) **CARCINOGENICITY:** No evidence of carcinogenic properties.

**MUTAGENICITY/TERATOGENICITY**: No evidence of reproductive effects.

## 12. ECOLOGICAL INFORMATION

**12.1. TOXICITY**
No Data

**12.2. PERSISTENCE AND DEGRADABILITY**
No Data

**12.3. BIOACCUMULATIVE POTENTIAL**
No Data

**12.4. MOBILITY IN SOIL**
No Data

**12.5. RESULTS OF PBT AND vPvB ASSESSMENT**
Not required or conducted

**12.6. OTHER ADVERSE AFFECTS**
No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.

## 13. DISPOSAL CONSIDERATIONS

**13.1. 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

**14.1. UN NUMBER:** None

**14.2. UN PROPER SHIPPING NAME:**
Not subject to transportation regulations.

**14.3. TRANSPORT HAZARD CLASS:** None

**14.4. PACKING GROUP:** None

**14.5. ENVIRONMENTAL HAZARDS:** None

**14.6. SPECIAL PRECAUTIONS FOR USER:** None

**14.7. TRANSPORT IN BULK MARPOL / IBC:** No Data

## 15. REGULATORY INFORMATION

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

TSCA: Listed in the TCSA Inventory

## 16. OTHER INFORMATION

**REVISION DATE: 6th July 2026 ©2026 Crystran Ltd.**

The above information is believed to be correct but does not purport to be all inclusive and must be used only as a guide.


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