

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-12

Print Date: 2025-09-18

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

### 1.1 Product identifiers

Product name : Barium bromide  
Product Number : B431325  
Brand : aladdin  
CAS-No. : 10553-31-8

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

Identified uses : Laboratory chemicals, Manufacture of substances.

### 1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION  
Address : 14078 Meridian Parkway,  
Riverside, CA. 92518  
Telephone : +1 (833) 552-7181  
Fax : no data available

### 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300  
CHEMTREC®, Outside the USA :

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Category 4

Acute Inhalation Toxicity - Dusts and Mists Category 4

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed

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|                                   |                                                                            |
|-----------------------------------|----------------------------------------------------------------------------|
| H332                              | Harmful if inhaled                                                         |
| H302+H332                         | Harmful if swallowed or if inhaled                                         |
| <b>Precautionary statement(s)</b> |                                                                            |
| P261                              | Avoid breathing dust/fume/gas/mist/vapors/spray.                           |
| P264                              | Wash hands [and ...] thoroughly after handling.                            |
| P270                              | Do not eat, drink or smoke when using this product.                        |
| P271                              | Use only outdoors or in a well-ventilated area.                            |
| P312                              | Call a POISON CENTER or doctor/... if you feel unwell.                     |
| P330                              | Rinse mouth.                                                               |
| P301+P312                         | IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.          |
| P304+P340                         | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P501                              | Dispose of contents/container to an approved waste disposal plant.         |

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                     |
|------------------|---------------------|
| Synonyms         | : Barium dibromide  |
| Formula          | : BaBr <sub>2</sub> |
| Molecular weight | : 297.14            |
| CAS No.          | : 10553-31-8        |
| EC-NO.           | : 234-140-0         |

| Component             | Classification    | Concentration                                                  |
|-----------------------|-------------------|----------------------------------------------------------------|
| <b>Barium bromide</b> |                   |                                                                |
|                       | no data available | PrimorTrace™,<br>≥99.999% metals<br>basis, beads, > 10<br>mesh |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General advice**

Show this material safety data sheet to the doctor in attendance.

**If inhaled**

Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.

**In case of skin contact**

Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated

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clothes and shoes.

**In case of eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**If swallowed**

Do NOT induce vomiting. Get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

no data available

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**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

**Unsuitable extinguishing media**

no data available

**5.2 Special hazards arising from the substance or mixture**

no data available

**5.3 Advice for firefighters**

wear self-contained breathing and full protective gear.

**5.4 Further information**

Use water spray to cool unopened containers.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

**6.2 Environmental precautions**

Should not be released into the environment. See Section 12 for additional Ecological Information.

**6.3 Methods and materials for containment and cleaning up**

Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment. Avoid dust formation.

**6.4 Reference to other sections**

For disposal see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

##### Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

##### Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| a) Appearance                                   | form: Powder Solid color: White |
| b) Odour                                        | no data available               |
| c) Odour Threshold                              | no data available               |
| d) pH                                           | no data available               |
| e) Melting point/freezing point                 | no data available               |
| f) Initial boiling point and boiling range      | no data available               |
| g) Flash point                                  | no data available               |
| h) Evaporation rate                             | no data available               |
| i) Flammability (solid, gas)                    | no data available               |
| j) Upper/lower flammability or explosive limits | no data available               |
| k) Vapour pressure                              | no data available               |
| l) Vapour density                               | no data available               |
| m) Relative density                             | no data available               |
| n) Water solubility                             | no data available               |
| o) Partition coefficient: n-octanol/water       | no data available               |
| p) Auto-ignition temperature                    | no data available               |
| q) Decomposition temperature                    | no data available               |
| r) Viscosity                                    | no data available               |
| s) Explosive properties N                       | no data available               |
| t) Oxidizing properties N                       | no data available               |

## 9.2 Other safety information

no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Excess heat. Avoid dust formation. Exposure to moist air or water.

### 10.5 Incompatible materials

Acids, Strong oxidizing agents

### 10.6 Hazardous decomposition products

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Hydrogen halides, Barium oxides

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**no data available

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**SECTION 12: Ecological information****12.1 Toxicity**

no data available

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

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no data available

**12.6 Other adverse effects**

no data available

**SECTION 13:**

**13.1 Disposal considerations**

**Product**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14: Transport information**

**DOT (US)**

|                                          |                                            |                                             |
|------------------------------------------|--------------------------------------------|---------------------------------------------|
| UN number: UN1564                        | Packing group: no data available           | Class: no data available                    |
| Proper shipping name: no data available  | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |
| Environmental Hazards: no data available |                                            |                                             |

**IMDG**

|                                         |                                  |                           |
|-----------------------------------------|----------------------------------|---------------------------|
| UN number: UN1564                       | Packing group: no data available | EMS-No: no data available |
| Proper shipping name: no data available |                                  |                           |

**IATA**

|                                         |                                  |                          |
|-----------------------------------------|----------------------------------|--------------------------|
| UN number: UN1564                       | Packing group: no data available | Class: no data available |
| Proper shipping name: no data available |                                  |                          |

**SECTION 15: Regulatory information**

Please note that waste disposal should also meet local regulations. If applicable, the chemical meets the requirements of the Regulations on the Safety Management of Hazardous Chemicals (adopted by the State Council on December 4, 2013).

**SECTION 16: Other information**

|               |                                                                                                                                                     |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Prepared By   | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a> |
| Creation Date | 24-Feb-2023                                                                                                                                         |
| Revision Date | 12-Sep-2025                                                                                                                                         |
| Print Date    | 18-Sep-2025                                                                                                                                         |

**Revision Summary**

SDS sections updated v1

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