

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-22

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

### 1.1 Product identifiers

Product name : Barium perchlorate trihydrate  
Product Number : B492380  
Brand : aladdin  
CAS-No. : 10294-39-0

### 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)

Oxidizing solids category 1

Acute oral toxicity category 4

Acute inhalation toxicity - dust and smoke category 4

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H271

May cause fire or explosion; strong Oxidizer

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|                                   |                                                                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| H302+H332                         | Harmful if swallowed or if inhaled                                                                                             |
| <b>Precautionary statement(s)</b> |                                                                                                                                |
| P210                              | Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.                                |
| P220                              | Keep away from clothing and other combustible materials.                                                                       |
| P221                              | Take any precaution to avoid mixing with combustibles/...                                                                      |
| 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.                                                                                |
| P280                              | Wear protective gloves/protective clothing/eye protection/face protection.                                                     |
| P283                              | Wear fire resistant or flame retardant clothing.                                                                               |
| P306+P360                         | IF ON CLOTHING: Rinse Immediately contaminated CLOTHING and SKIN with plenty of water before removing clothes.                 |
| P370+P378                         | In case of fire: Use ... to extinguish.                                                                                        |
| P371+P380+P375                    | In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.                   |
| P501                              | Dispose of contents/container to an approved waste disposal plant.                                                             |
| P301+P312+P330                    | IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.                                                    |
| P304+P340+P312                    | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor. if you feel unwell. |

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                              |
|------------------|------------------------------|
| Synonyms         | : Barium perchlorate hydrate |
| Formula          | : BaCl2O8·3H2O               |
| Molecular weight | : 390.29(336.24anhy)         |
| CAS No.          | : 10294-39-0                 |
| EC-NO.           | : no data available          |

| Component                            | Classification    | Concentration |
|--------------------------------------|-------------------|---------------|
| <b>Barium perchlorate trihydrate</b> |                   |               |
|                                      | no data available | ≥90%          |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

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**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

**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**

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur

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

no data available

**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**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media**

no data available

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

Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**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.

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

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Soak up with

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inert absorbent material. Sweep up and shovel into suitable containers for disposal.

## 6.4 Reference to other sections

For disposal see section 13.

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## 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. Avoid dust formation. Keep away from clothing and other combustible materials.

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

Store under an inert atmosphere. Protect from moisture. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials.

### 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

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves 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.

##### Body Protection

Complete suit protecting against chemicals, 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 full-face 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

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approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

no data available

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|                                                 |                                       |
|-------------------------------------------------|---------------------------------------|
| a) Appearance                                   | form: crystalline powder 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

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**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

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## 10.4 Conditions to avoid

Exposure to moist air or water. Incompatible products. Excess heat. Combustible material.

## 10.5 Incompatible materials

Strong reducing agents. Combustible material.

## 10.6 Hazardous decomposition products

Hydrogen chloride. Barium oxides.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### 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

There are no known carcinogenic chemicals in this product.

#### 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

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## SECTION 12: Ecological information

### 12.1 Toxicity

### 12.2 Persistence and degradability

no data available

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**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

no data available

**SECTION 13:**

**13.1 Disposal considerations**

**Product**

Waste is classified as hazardous. Dispose of in accordance with local regulations.

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14: Transport information**

**DOT (US)**

|                                                 |                                            |                                             |
|-------------------------------------------------|--------------------------------------------|---------------------------------------------|
| UN number: 1447                                 | Packing group: II                          | Class: 5.1 (6.1)                            |
| Proper shipping name: Barium perchlorate, solid | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |
| Environmental Hazards: No                       |                                            |                                             |

**IMDG**

|                                                 |                   |                           |
|-------------------------------------------------|-------------------|---------------------------|
| UN number: 1447                                 | Packing group: II | EMS-No: no data available |
| Proper shipping name: Barium perchlorate, solid |                   |                           |

**IATA**

|                                                 |                   |                  |
|-------------------------------------------------|-------------------|------------------|
| UN number: 1447                                 | Packing group: II | Class: 5.1 (6.1) |
| Proper shipping name: Barium perchlorate, solid |                   |                  |

**SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**SECTION 16: Other information**

**Prepared By**

Regulatory Affairs  
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|-------------------------|-------------------------|
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