

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2024-02-26  
Print Date: 2024-02-26

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

### 1.1 Product identifiers

Product name : Barium hydroxide hydrate  
Product Number : B119116  
Brand : aladdin  
CAS-No. : 40226-30-0

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

Identified uses : Laboratory chemicals, Manufacture of substances.

### 1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co., Ltd  
Address : 36 Xinjinqiao Road, Shanghai  
Telephone : 400-620-6333  
Fax : no data available

### 1.4 Emergency telephone number


Emergency Phone : 0532-83889090

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)  
Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Inhalation (Category 4), H332  
Skin corrosion/irritation (Category 1), H314  
Serious eye damage/eye irritation (Category 1), H318  
Specific target organ toxicity - single exposure (Category 2), H371  
Specific target organ toxicity - single exposure (Category 3), respiratory tract irritation, H335

### 2.2 GHS Label elements, including precautionary statements

Pictogram 

Signal word Danger

Hazard statement(s)  
H314 Causes severe skin burns and eye damage  
H335 May cause respiratory irritation

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

|                            |  |
|----------------------------|--|
| H371                       | May cause damage to organs   |
| H302+H332                  | Harmful if swallowed or if inhaled   |
| Precautionary statement(s) |  |
| P260                       | Do not breathe 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.   |
| P310                       | Immediately call a POISON CENTER or doctor/physician.  |
| P363                       | Wash contaminated clothing before reuse.   |
| P301+P312                  | IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.  |
| P301+P330+P331             | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P303+P361+P353             | IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].                         |
| P304+P340                  | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P305+P351+P338             | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. |
| P308+P311                  | IF exposed or concerned: Call a POISON CENTER/doctor/...   |
| P405                       | Store locked up.   |
| P403+P233                  | Store in a well-ventilated place. Keep container tightly closed.   |
| P501                       | Dispose of contents/container to an approved waste disposal plant.   |

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                     |
|------------------|---------------------|
| Synonyms         | : no data available |
| Formula          | : H2BaO2.xH2O       |
| Molecular weight | : 171.34            |
| CAS No.          | : 40226-30-0        |
| EC-NO.           | : no data available |

| Component                | Classification    | Concentration       |
|--------------------------|-------------------|---------------------|
| Barium hydroxide hydrate | no data available | 99.99% metals basis |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

#### General advice

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

#### 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 with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 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

---

## 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

Barium oxide

### 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.

---

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### 6.2 Environmental precautions

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

disposal.

## 6.4 Reference to other sections

For disposal see section 13.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. air sensitive

### 7.3 Specific end use(s)

no data available

---

## 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

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU) 2016 / 425 and the en 374 standard 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 respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

Shanghai Aladdin Biochemical Technology Co., Ltd.

No. 809, Chuhua Branch Road, Fengxian District, Shanghai

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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |   |
|---|---|
| a) Appearance                                   | form: Crystals, Powder or Granules color: White |
| b) Odour  | no data available                               |
| c) Odour Threshold                              | no data available                               |
| d) pH   | no data available                               |
| e) Melting point/freezing point                 | 78 °C(lit.)                                     |
| 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                             | 2.18  |
| 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

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

#### 10.4 Conditions to avoid

no data available

#### 10.5 Incompatible materials

acids

#### 10.6 Hazardous decomposition products

no data available

---

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 550 mg/kg

LC50 Inhalation - 4 h - 1.5 mg/l - dust/mist

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

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

Cough, Shortness of breath, Headache, Nausea

---

### SECTION 12: Ecological information

#### 12.1 Toxicity

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

## 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

no data available

## 12.6 Other adverse effects

no data available

---

## SECTION 13:

### 13.1 Disposal considerations

Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur.

Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

Dispose of as unused product.

---

## SECTION 14: Transport information

DOT (US)

UN number: 3262

Packing group: II

Class: 8.2

Proper shipping name: Corrosive solid, Reportable Quantity(RQ): no data  
basic, inorganic, n.o.s. (Barium available  
hydroxide)

Poison Inhalation Hazard: no data  
available

Environmental Hazards: no

IMDG

UN number: 3262

Packing group: II

EMS-No: no data available

Proper shipping name: Corrosive solid, basic, inorganic, n.o.s. (Barium hydroxide)

IATA

UN number: 3262

Packing group: II

Class: 8.2

Proper shipping name: Corrosive solid, basic, inorganic, n.o.s. (Barium hydroxide)

---

## SECTION 15: Regulatory information

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

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

## SECTION 16: Other information

### Further information

Copyright Aladdin Co. Ltd. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Version: v1

Revision Date: 2024-02-26

Print Date: 2024-02-26

□