



## Section 1 - Chemical Product and Company Identification

**Product Name** Barium Hydroxide Octahydrate extrapure AR, 98%  
**Product Code** 43469  
**CAS No** 12230-71-6  
**Use for** Laboratory Chemicals.  
**Company Name** Sisco Research Laboratories Pvt. Ltd.  
**Address** 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,  
Andheri (E), Mumbai - 400 099, India

## Section 2 - Composition/Information on Ingredients

| CAS#       | Chemical Name:   | %     | EINECS#  |
|------------|------------------|-------|----------|
| 12230-71-6 | Barium hydroxide | <=100 | unlisted |

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Danger! Causes burns by all exposure routes. Harmful if inhaled or swallowed.

**Target Organs:** Kidneys, central nervous system, respiratory system, gastrointestinal system, muscles, cardiovascular system, eyes, skin.

### Potential Health Effects

**Eye:** Causes eye burns.

**Skin:** Causes skin burns. May be harmful if absorbed through the skin.

**Ingestion:** Harmful if swallowed. Causes gastrointestinal tract burns.

**Inhalation:** Harmful if inhaled. Causes chemical burns to the respiratory tract.

**Chronic:** No information found.

## Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Do not induce vomiting. Get medical aid immediately. Call a poison control center.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Notes to Physician:** Treat symptomatically and supportively.



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## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

## Section 7 - Handling and Storage

**Handling:** Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood.

**Storage:** Store in a cool, dry place. Store in a tightly closed container. Corrosives area. Store under nitrogen.

## Section 8 - Exposure Control / Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

### Exposure Limits:

#### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

## Section 9 - Physical and Chemical Properties



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**Product Code** 43469  
**Physical State:** Solid  
**Molecular Formula:** Ba(OH)<sub>2</sub>·8H<sub>2</sub>O  
**Molecular Weight:** 315.47

## Section 10 - Stability and Reactivity

**Chemical Stability:** Absorbs carbon dioxide from the air.  
**Conditions to Avoid:** Incompatible materials, dust generation, exposure to air.  
**Incompatibilities with Other Materials :** Aluminum.  
**Hazardous Decomposition Products :** Barium oxide.  
**Hazardous Polymerization :** Will not occur.

## Section 11 - Toxicological Information

**RTECS#:** CAS# 12230-71-6: None listed  
**LD50/LC50:** RTECS: Not available.  
**Carcinogenicity:** Barium hydroxide octahydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. Barium hydroxide anhydrous - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** The toxicological properties have not been fully investigated.

## Section 12 - Ecological Information

**Other:** Do not empty into drains.

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

|                | IATA                               | IMO                                | RID/ADR                            |
|----------------|------------------------------------|------------------------------------|------------------------------------|
| Shipping Name: | Corrosive Solids,<br>Toxic, N.O.S. | Corrosive Solids,<br>Toxic, N.O.S. | Corrosive Solids,<br>Toxic, N.O.S. |
| Hazard Class:  | 8                                  | 8                                  | 8                                  |
| UN Number:     | 2923                               | 2923                               | 2923                               |
| Packing Group: | III                                | III                                | III                                |

## Section 15 - Regulatory Information



**Product Code** 43469

**European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases: R 20/22 Harmful by inhalation and if swallowed.

R 34 Causes burns.

Safety Phrases: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection) CAS# 12230-71-6: 1, CAS# 17194-00-2

Canada CAS# 17194-00-2 is listed on Canada's DSL List

**US Federal**

TSCA CAS# 12230-71-6 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the Inventory (40CFR720.3(u)(2)). CAS# 17194-00-2 is listed on the TSCA Inventory.

**Section 16 - Other Information**

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.