
 <p>CHEMLABS Quality Our Forte</p>	<p>LEONID CHEMICALS PVT. LTD., BANGALORE</p> <p>An ISO-9001:2008 Certified Company</p> <p>Quality Assurance Department</p>	<p>(CODE) DOCUMENT : WI</p> <p>(CODE) SECTION : WI/SM</p> <p>(DATE) : 01.04.2011</p>	 <p>Issue : 02</p> <p>Rev.: 00</p>
<p>Title: MATERIAL SAFETY DATA SHEET (MSDS) BARIUM HYDROXIDE OCTAHYDRATE</p>			<p>1 Page of 1</p>

BARIUM HYDROXIDE OCTAHYDRATE

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:

Barium hydroxide octahydrate

Catalog Numbers:

B010

Synonyms:

No information available.

Company Information:

LEONID CHEMICALS Pvt Ltd,
62/A-2, 1st Stage,
Yeshvanthpur Industrial Suburb,
Asoka puram School Road,
Bangalore -22, Karnataka, INDIA
Ph- +91-80-23378354
Fax: +918023378354/23377126

SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	: 12230-71-6
Chemical Name	: Barium hydroxide octahydrate
%	: Unlisted.
EINECS#	: Unlisted.
Hazard Symbols	: C
Risk Phrases	: 20/22 34

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful by inhalation and if swallowed. Causes burns. Air sensitive.



Potential Health Effects

Eye:

Causes eye burns. Causes redness and pain.

Skin:

Causes skin burns. Causes redness and pain.

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Ingestion:

Harmful if swallowed. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. Causes gastrointestinal tract burns.

Inhalation:

Causes chemical burns to the respiratory tract. Inhalation of vapors will cause coughing or breathing difficulty. Harmful if inhaled.

Chronic:

No information available.

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:

Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

Treat symptomatically and supportively.

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.

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Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

SECTION 7 - HANDLING AND STORAGE

Handling:

Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. 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 Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes: Wear chemical goggles.



Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9 -PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Flakes
Color	: White - fine
Odor	: Odorless
pH	: 12.5 (50 g/l aq.sol.)
Vapor Pressure	: No information available.
Viscosity	: No information available.
Boiling Point	: No information available.
Freezing/Melting Point	: 78°C
Autoignition Temperature	: No information available.
Flash Point	: No information available.
Explosion Limits, lower	: No information available.
Explosion Limits, upper	: No information available.
Decomposition Temperature	: > 95°C

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Solubility in water : 56 g/l water (15°C)

Specific Gravity/Density : 2.180

Molecular Formula : $H_2BaO_2 \cdot 8H_2O$

Molecular Weight : 315.48

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures. Absorbs carbon dioxide from the air.

Conditions to Avoid:

Incompatible materials, exposure to air.

Incompatibilities with Other Materials:

Acids, aluminum.

Hazardous Decomposition Products:

Barium oxide.

Hazardous Polymerization:

Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 12230-71-6 unlisted.

LD50/LC50:

Not available. Oral, rat: LD50 = 550 mg/kg

Carcinogenicity:



Barium hydroxide octahydrate - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

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

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SECTION 14 -TRANSPORT INFORMATION

IATA

Shipping Name : CORROSIVE SOLID, TOXIC, and N.O.S

Hazard Class : 8

UN Number : 2923

Packing Group : III

IMO

Shipping Name : CORROSIVE SOLID, TOXIC, N.O.S.

Hazard Class : 8

UN Number : 2923

Packing Group : III

RID/ADR

Shipping Name : CORROSIVE SOLID, TOXIC, N.O.S.

Hazard Class : 8

UN Number : 2923

Packing group : III

SECTION 15 -REGULATORY INFORMATION

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

United Kingdom Occupational Exposure Limits

No information available.

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United Kingdom Maximum Exposure Limits

No Information available.

Canada

None of the chemicals in this product are listed on the DSL/NDL list. CAS# 12230-71-6 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

No Information available.

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)).

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Leonid Chemicals Pvt. Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Leonid Chemicals Pvt. Ltd. has been advised of the possibility of such damages.

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<p>Title: SPECIFICATION MANUAL FOR BARIUM HYDROXIDE OCTAHYDRATE</p>			<p>1 Page of 1</p>

Specification manual - Barium Hydroxide Octahydrate

Ba (OH)₂. 8H₂O

MW: 315.47

Product : Barium Hydroxide Octahydrate LR Grade
Description : Colourless crystals
Cat No : B010
CAS No : 12230-71-6
Prepared Date : 12/12/2008
Approved Date : 13/12/2008

REVISION HISTORY				
Issue/Rev	Description of Change		Author	Effective Date
01/00	Initial Release		S. Paul Joshua	13.12.2008
02/00	Reviewed no changes		S. Paul Joshua	01.04.2011
Next Review Due :		02.04.2015		
To be reviewed by :		Head-QC/QA		

Sl. No.	Tests	Specification
		LR
1	Assay (T)	≥98.0%
2	Identification	Passes test

Approved By: S.Paul Joshua, Head Quality Control and Quality Assurance

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