



MATERIAL SAFETY DATA SHEET

CONTACT : **LEONID CHEMICALS**
62/A-2 2nd Stage, Industrial Suburb
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Barium hydroxide octahydrate, p.a.

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:

Barium hydroxide octahydrate, p.a.

Catalog Numbers:

20314-0000, 20314-0010, 20314-0250, 20314-2500

Synonyms:

No information available.

Company Information:

LEONID CHEMICALS

62/A-2 1st Stage, Yeshwanthpur Industrial Suburb

Ashokpuram School Road

Bangalore-560 022, Karnataka, INDIA

Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

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.



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.

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 deg 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 deg C
Solubility in water	:	56 g/l water (15°C)
Specific Gravity/Density	:	2.180
Molecular Formula	:	H2BaO2.8H2O
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. .

SECTION 14 -TRANSPORT INFORMATION

IATA

Shipping Name : CORROSIVE SOLID, TOXIC, 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.

United Kingdom Maximum Exposure Limits

No Information available.

Canada

None of the chemicals in this product are listed on the DSL/NDSL 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 way shall the company 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 the company has been advised of the possibility of such damages.

