



WUHAN XINRU CHEMICAL INDUSTRY CO., LTD

NO 498 JIANSHE AVENUE,JIANGHAN DISTRICT,WUHAN,CHINA
TEL : +86-27-59843600/59843601 FAX : +86-27-66660488

BARIUM HYDROXIDE OCTAHYDRATE

Material Safety Data Sheet

Date updated Mar. 7th, 2012

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Date concerning producer

Wuhan Xinru Chemical Industry Co.,LTD
No.498,Jianshe Avenue, Jianghan District,Wuhan City,Hubei,430000 China
Tel: 0086 27 59843600/01 Fax: 0086 27 66660488

Section 1 - Chemical Product

MSDS Name:Barium Hydroxide Octahydrate
Synonym:None

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
12230-71-6	Barium hydroxide octahydrate	>99	241-234-5

Hazard Symbols: XN C
Risk Phrases: 20/22 34

Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful by inhalation and if swallowed. Causes burns.Corrosive.

Potential Health Effects

Eye:

Causes eye burns. Contact produces irritation, tearing, and burning pain.

Skin:

Causes skin burns.



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Ingestion:

May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause respiratory failure. May cause kidney failure. May cause convulsions, increased blood pressure, muscle spasms, and possible paralysis.

Inhalation:

May cause severe irritation of the upper respiratory tract with pain, burns, and inflammation. Causes chemical burns to the respiratory tract.

Chronic:

Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion.

Section 4 - FIRST AID MEASURES

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

Skin:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical aid immediately. Wash clothing before reuse.

Ingestion:

If swallowed, do NOT induce vomiting. Get medical aid immediately.

If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

Antidote: The use of d-Penicillamine as a chelating agent should be determined by qualified medical personnel.

Section 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand,



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MSHA/NIOSH (approved or equivalent), and full protective gear. Decomposes at high temperatures, resulting in toxic and corrosive products.

Extinguishing Media:

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions.

Provide ventilation.

Section 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Use only with adequate ventilation.

Storage:

Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from strong acids. Corrosives area.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.



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Exposure Limits CAS# 12230-71-6: United States OSHA: 0.5 mg/m³ TWA (listed under Barium).

Belgium - TWA: (listed as barium): 0.5 mg/m³ VLE Malaysia: (listed as barium): 0.5 mg/m³ TWA Netherlands: (listed as barium): 0.5 mg/m³ MAC Spain: (listed as barium): 0.5 mg/m³ VLA-ED CAS# 17194-00-2: United States OSHA: 0.5 mg/m³ TWA (listed under Barium).

Belgium - TWA: (listed as barium): 0.5 mg/m³ VLE Malaysia: (listed as barium): 0.5 mg/m³ TWA Netherlands: (listed as barium): 0.5 mg/m³ MAC Russia: 0.1 mg/m³ TWA Spain: (listed as barium): 0.5 mg/m³ VLA-ED Personal Protective Equipment Eyes: Wear chemical splash goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Respirators:

A respiratory protection program that meets OSHAs 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

Physical State: Solid

Color: transparent

Odor: odorless

pH: Alkaline.

Vapor Pressure: Negligible.

Viscosity: Not available.

Boiling Point: 780 deg C

Freezing/Melting Point: 78 deg C

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: Not available.

Solubility in water: Moderately in water (5.6 g/100 ml)

Specific Gravity/Density: 2.18

Molecular Formula: Ba(OH)₂·8H₂O

Molecular Weight: 315.45



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Section 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Dust generation, excess heat.

Incompatibilities with Other Materials:

Strong oxidizing agents, metals, acids.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, barium oxide.

Hazardous Polymerization: Has not been reported.

Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 12230-71-6 unlisted.

CAS# 17194-00-2: CQ9200000 LD50/LC50:

Not available.

CAS# 17194-00-2: Oral, rat: LD50 = 308 mg/kg.

Carcinogenicity:

Barium hydroxide octahydrate - Not listed by ACGIH, IARC, or NTP.

Barium hydroxide anhydrous - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity: No data available. No information available.

Environmental: No information available.

Physical: No information available.

Other: Do not empty into drains.



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Section 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

Section 14 - TRANSPORT INFORMATION

Barium hydroxide octahydrate
(DISINFECTANT FOR AQUACULTURE)
Hazard Class: 6.1
UN Number: 1564

Section 15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XN 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: 1



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Canada

CAS# 17194-00-2 is listed on Canadas DSL List.

CAS# 12230-71-6 is not listed on Canadas Ingredient Disclosure List.

CAS# 17194-00-2 is not listed on Canadas Ingredient Disclosure 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 15 - OTHER INFORMATION

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