# GOJIRA FINE CHEMICALS, LLC

gojirafc.com

# **SAFETY DATA SHEET**

Version 6.0 Revision Date 05/28/2017 Print Date 10/04/2019

### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Barium hydroxide octahydrate

Product Number : BH1006

CAS-No. : 12230-71-6

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

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Gojira Fine Chemicals

5386 Majestic Parkway, Suite 7 Bedford Heights,

OH 44146

Telephone :440-252-5397

Email :docsupport@gojirafc.com

Fax :888-211-5523

1.4 Emergency telephone number

Emergency Phone # : 800-255-3924 (ChemTel, Contract # MIS7318160)

# 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 (Category 1B), H314 Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 GHS Label elements, including precautionary statements

Pictogram

(I)

Signal word Danger

Hazard statement(s)

H302 + H332 Harmful if swallowed or if inhaled

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P260 Do not breathe dust or mist.

P264 Wash skin 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. 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): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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. Immediately call a POISON CENTER/doctor. P310 P321 Specific treatment (see supplemental first aid instructions on this label). P363 Wash contaminated clothing before reuse. P405 Store locked up.

Dispose of contents/ container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

P501

Formula : Ba(OH)2 · 8H2O Molecular weight : 315.46 g/mol CAS-No. : 12230-71-6 EC-No. : 241-234-5

# **Hazardous components**

Component	Classification	Concentration
Barium hydroxide		
	Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; H302 + H332, H314	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

# In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

# In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

### If swallowed

Do NOT induce vomiting. 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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

# 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# 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

No data available

### 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. For personal protection see section 8.

### 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 disposal.

# 6.4 Reference to other sections

For disposal see section 13.

# 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.

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Air sensitive.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

# Components with workplace control parameters

Component	CAS-No.	Value	Control	Basis	
			parameters		
Barium hydroxide	12230-71-6	TWA	0.500000	USA. Occupational Exposure Limits	
			mg/m3	(OSHA) - Table Z-1 Limits for Air	
				Contaminants	
		TWA	0.500000	USA. ACGIH Threshold Limit Values	
			mg/m3	(TLV)	
	Remarks	Eye irritation			
		Muscular stimulation			
		Skin irritation			
		Gastrointestinal irritation			
		Not classifiable as a human carcinogen			

TWA	0.500000 mg/m3	USA. NIOSH Recommended Exposure Limits	
TWA	0.5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	
TWA	0.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)	
Eye irritation Muscular stimulation Skin irritation Gastrointestinal irritation Not classifiable as a human carcinogen			
TWA	0.5 mg/m3	USA. NIOSH Recommended Exposure Limits	

### 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 EN 166(EU).

# Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Body Protection**

Complete suit protecting against chemicals, 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 (EN 143) respirator cartridges as a backup to engineering controls. If th 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

Do not let product enter drains.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

a) Appearance Form: solid

b) Odour No data available

Odour Threshold No data available c)

d) рΗ 12.5 at 50 g/l at 20 °C (68 °F)

Melting point/freezing Melting point/range: 78 °C (172 °F) - lit. e)

point

Initial boiling point and f)

boiling range

No data available

Flash point ()Not applicable g) **Evaporation rate** No data available h)

Flammability (solid, gas) No data available i)

Upper/lower j) flammability or explosive limits No data available

k) Vapour pressure No data available Vapour density No data available 2.180 g/cm3 m) Relative density Water solubility soluble

Partition coefficient: noctanol/water

No data available

Auto-ignition temperature

No data available

Decomposition temperature

No data available

No data available r) Viscosity No data available s) Explosive properties Oxidizing properties No data available

9.2 Other safety information

> **Bulk density** 0.90 - 1.1 g/l

### 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

#### Conditions to avoid 10.4

No data available

#### 10.5 Incompatible materials

acids

# Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Barium oxide Other decomposition products - No data available In the event of fire: see section 5

# 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

### **Acute toxicity**

LD50 Oral - Rat - 550 mg/kg(Barium hydroxide) Inhalation: No data available(Barium hydroxide) Dermal: No data available(Barium hydroxide)

No data available(Barium hydroxide)

### Skin corrosion/irritation

No data available(Barium hydroxide)

# Serious eye damage/eye irritation

No data available(Barium hydroxide)

### Respiratory or skin sensitisation

No data available(Barium hydroxide)

# Germ cell mutagenicity

No data available(Barium hydroxide)

# Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

# Reproductive toxicity

No data available(Barium hydroxide)

No data available(Barium hydroxide)

# Specific target organ toxicity - single exposure

No data available(Barium hydroxide)

# Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available(Barium hydroxide)

# **Additional Information**

RTECS: Not available

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea(Barium hydroxide)

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence(Barium hydroxide)

# 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

No data available

# 12.2 Persistence and degradability

No data available

# 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available(Barium hydroxide)

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

No data available

# 13. DISPOSAL CONSIDERATIONS

# 13.1 Waste treatment methods

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

# Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

DOT (US)

UN number: 3262 Class: 8 Packing group: II

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

Poison Inhalation Hazard: No

**IMDG** 

UN number: 3262 Class: 8 Packing group: II EMS-No: F-A, S-B Proper shipping name: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Barium hydroxide)

IATA

UN number: 3262 Class: 8 Packing group: II

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

# 15. REGULATORY INFORMATION

## **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

CAS-No. Revision Date

Barium hydroxide 12230-71-6 2007-07-01

# SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

# **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

# Pennsylvania Right To Know Components

Barium hydroxide CAS-No. Revision Date 2007-07-01

**New Jersey Right To Know Components** 

Barium hydroxide CAS-No. Revision Date 2007-07-01

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### 16. OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.

H302 + H332 Harmful if swallowed or if inhaled

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

# **HMIS Rating**

Health hazard: 3
Chronic Health Hazard: \*
Flammability: 0
Physical Hazard 0

# **NFPA Rating**

Health hazard: 3
Fire Hazard: 0
Reactivity Hazard: 0

# **Further information**

The above information is believed to be accurate and represents the best information currently available to Gojira Fine Chemicals. However, we make no warranty or 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 Gojira Fine Chemicals 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 Gojira Fine Chemicals has been advised of the possibility of such damages.

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