Barium Hydroxide 8-hydrate



Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Barium Hydroxide 8-hydrate Science education applications Barium Hydroxide Octahydrate Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER

Section 2



Harmful if swallowed or if inhaled. Causes serious eye damage.

GHS Classification:

Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity - Inhalation Dust / Mist Category 4, Acute Toxicity - Oral Category 4

Section 3	Composition / Information on Ingredients			
Chemical Name	<u>CAS #</u>	<u>%</u>		
Barium Hydroxide 8-hydrate	12230-71-6	100		

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
-	to do. Continue rinsing.
Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Section 5

Firefighting Procedures

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid. Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Hazardous Combustion Products:	None Known Metal Oxides,

Section 6	Spill or Leak Procedures					
Steps to Take in Released or Spill						
Section 7	Handling and Storage					
Handling:	Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes. Do not breathe dust. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Avoid contact with clothing. Do not ingest or take internally.					
Storage:	Keep container tightly closed in a cool, well-ventilated place. Store in a secure area suitable for toxic material.					
Storage Code:	Green - general chemical storage					

Protection Information

	ACGIH		OSHA PEL		
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
Barium Hydroxide, 8-Hydrate	0.5 mg/m3 TWA (as	N/A	0.5 mg/m3 TWA	N/A	
	Ba)		(as Ba)		
Control Parameters					
Engineering Measures:	No exposure limits exist for the constituents of this product. General room ventilation				
	might be required to mainta				
	general room ventilation sh	ould be sufficient	t to control airborne contan	ninates to safe	
Developed Developed in a Fundament (DDF)	levels.				
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.				
Respiratory Protection:	No respiratory protection required under normal conditions of use. Wear a NIOSH				
	approved respirator if levels above the exposure limits are possible.				
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.				
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective				
	equipment depending upon	conditions of us	 e. Inspect gloves for chem 	ical break-through	
	and replace at regular inter				
	other exposed areas with m				
	work. Wash hands and oth				
	drinking, and when leaving				
	personal hygiene. Inspect gloves for chemical break-through and replace at regular				
	intervals. Clean protective e	equipment regula	arly.		
Gloves:	Nitrile				

Section 9

Section 8

Physical Data

Formula: Ba(OH)2 · 8H2O Molecular Weight: 315.46 g/mol Appearance: Solid Odor: No data available Odor Threshold: No data available pH: 12.5 at 50 g/l at 20 °C (68 °F) Melting Point: No data available Boiling Point: No data available Vapor Pressure: No data available Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): No data available Specific Gravity: No data available Solubility in Water: Slightly Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available

Flash Point: No data available Flammable Limits in Air: N/A

Section 10

Viscosity: No data available Percent Volatile by Volume: No data available

Reactivity Data

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decompositio Hazardous Polymerizatio	on Products:	No data available Stable under normal cor None known. Acids Metal Oxides, Will not occur	nditions.		
Section 11		Toxicit	y Data		
Routes of EntryInhalation, ingestion, eye or skin contact.Symptoms (Acute):Impaired Kidney Function, Gastrointestinal,, Cardiovascular systemDelayed Effects:No data available					
Acute Toxicity: Chemical Name Barium Hydroxide, 8-Hydr	ate	CAS Number 12230-71-6	Oral LD50 Oral LD50 Rat 308 mg/kg	Dermal LD50	Inhalation LC50
Carcinogenicity: Chemical Name No data available		CAS Number	IARC Not listed	NTP Not listed	OSHA Not listed
Teratogenicity: Sensitization:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. See Section 2 Not listed as a carcinogen by IARC, NTP or OSHA.				
Section 12		Ec	ological Data		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This material is not expected to be harmful to the ecology. No data No data No data No data No data				
Chemical Name N/A		CAS Number E	co Toxicity		
Section 13		Dispo	osal Informatio	on	
Disposal Methods: Waste Disposal Code(s):	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined				

Section 14

Transport Information

Ground - DOT Proper Shipping Name:

UN number: 3262 Class: 8 Packing group: II; Poison Inhalation Hazard: No

Air - IATA Proper Shipping Name:

UN number: 3262 Class: 8 Packing group: II; Poison Inhalation Hazard: No

Section 15

TSCA Status:

Regulatory Information

A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
The following components are subject to reporting levels established by SARA Title III, Section 313:	12230-71-6	No	No	No	No	No

Section 16

Additional Information

Revised: 05/28/2015

Replaces: 04/30/2015

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary ACGIH	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA IDLH	Toxic Substances Control Act Immediately dangerous to life and health