Barium Hydroxide, 8-Hydrate



Section 1

Product Description

Product Name: Barium Hydroxide, 8-Hydrate Science education applications **Recommended Use:** Synonyms: Barium Hydroxide, Octahydrate Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

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

DANGER





Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage.

GHS Classification:

Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity - Inhalation Vapor Category 4, Acute Toxicity - Oral Category 4

Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas

100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

100 % of the mixture consists of ingredient(s) of unknown toxicity

Acute Toxicity Inhalation Dust/Mist Contains

Section 3

Composition / Information on Ingredients

Chemical Name CAS# % 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.

Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. Wash contaminated clothing before reuse.

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse

mouth. Do NOT induce vomiting.

Section 5

Firefighting Procedures

Extinguishing Media: 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: None Known

Hazardous Combustion Products: Metal Oxides,

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid the generation of dusts during clean-up. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Vacuum or sweep up material and place in a disposal container Avoid runoff into storm

sewers and ditches that lead to waterways.

Section 7

Handling and Storage

Handling: Do not breathe dust/fume/gas/mist/vapors/spray. 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 wellventilated 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: Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Store in a secure area suitable for toxic material.

White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids. Storage Code:

Section 8

Protection Information

ACGIH OSHA PEL Chemical Name (TWA) (STEL) (TWA) (STEL) Barium Hydroxide, 8-Hydrate 0.5 mg/m3 TWA (as 0.5 mg/m3 TWA N/A N/A Ba) (as Ba)

Control Parameters

No exposure limits exist for the constituents of this product. General room ventilation **Engineering Measures:**

> might be required to maintain operator comfort under normal conditions of use. Good general room ventilation should be sufficient to control airborne contaminates to safe

Personal Protective Equipment (PPE):

Respiratory Protection:

Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use. Wear a NIOSH

approved respirator if levels above the exposure limits are possible.

Wear chemical splash goggles when handling this product. Have an eye wash station **Eye Protection:**

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

> equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wash hands and other exposed areas with mild soap and water before eating. drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene. Inspect gloves for chemical break-through and replace at regular

intervals. Clean protective equipment regularly.

Gloves: Nitrile

Section 9

Physical Data

Formula: Ba(OH)2 * 8H2O Molecular Weight: 315.46 Appearance: Solid Odor: No data available

Odor Threshold: No data available

pH: 12.5 at 50 g/l at 20 °C Melting Point: No data available Boiling Point: No data available

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A

Vapor Density (Air=1): N/A Specific Gravity: N/A

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

Viscosity: No data available
Percent Volatile by Volume: 0%

Section 10

Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known. Incompatible Materials: Acids

Hazardous Decomposition Products: Metal Oxides, Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Impaired Kidney Function, Gastrointestinal,, Cardiovascular system

Delayed Effects: No data available

Acute Toxicity:

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Barium Hydroxide, 8-Hydrate12230-71-6Oral LD50 Rat 308Not determinedNot determined

mg/kg Oral LD50 MAMMAL 308 mg/kg

n

 Chemical Name
 CAS Number
 IARC
 NTP
 OSHA

 No data available
 12230-71-6
 Not listed
 Not listed
 Not listed

Chronic Effects:

Carcinogenicity:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical Name CAS Number Eco Toxicity

N/A 12230-71-6

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name:

UN number: 3262 Class: 8 Packing group: II Proper shipping name: Corrosive solid, basic, inorganic, n.o.s. (Barium hydroxide) Marine pollutant: No Poison Inhalation Hazard: No

Air - IATA Proper Shipping Name:

UN number: 3262 Class: 8 Packing group: II Proper shipping name: Corrosive solid, basic, inorganic, n.o.s. (Barium budrovide)

hydroxide)

Section 15 Regulatory Information

TSCA Status: 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 § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

No data available 12230-71-6 No No No No No

Section 16 Additional Information

Revised: 09/03/2014 Replaces: 08/27/2014 Printed: 09-11-2014

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

American Conference of Governmental **ACGIH** NTP National Toxicology Program Industrial Hygienists Occupational Safety and Health Administration **OSHA** CAS Chemical Abstract Service Number Permissible Exposure Limit PEL **CERCLA** Comprehensive Environmental Response, ppm Parts per million Compensation, and Liability Act Resource Conservation and Recovery Act **RCRA** DOT U.S. Department of Transportation Superfund Amendments and Reauthorization Act SARA International Agency for Research on Cancer **IARC** TLV Threshold Limit Value

N/A Not Available TSCA Toxic Substances Control Act

IDLH Immediately dangerous to life and health