Barium Chloride, 0.1 M



Section 1

Product Description

Product Name:Barium Chloride, 0.1 MRecommended Use:Science education applicationsSynonyms:Barium Chloride, Water SolutionDistributor: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;





Toxic if swallowed. Harmful to aquatic life.

GHS Classification:

Acute Toxicity - Oral Category 3, Hazardous to the aquatic environment - Acute Category 3

Section 3

Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 97.6

 Barium Chloride, Anhydrous
 10361-37-2
 2.4

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact: After contact with skin, wash immediately with plenty of water.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Section 5

Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products. Use appropriate

containment to avoid environmental contamination.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid the generation of dusts during clean-

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.

Section 7

Handling and Storage

Handling: Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Avoid release to the

environment. Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may

make empty containers hazardous; use caution.

Storage: Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Store in a secure area suitable for toxic material.

Storage Code: Blue - Toxic. Store separately in a secured area.

Section 8

Protection Information

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Barium Chloride, Anhydrous
 0.5 mg/m3 TWA (as
 N/A
 0.5 mg/m3 TWA
 N/A

 Ba)
 (as Ba)
 (as Ba)

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. Use local exhaust ventilation

or other engineering controls to minimize exposures and maintain operator comfort.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

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 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.

Gloves: No information available

Section 9

Physical Data

Formula: BaCl2 (aq)
Molecular Weight: N/A
Appearance: Colorless Liquid

Odor: None

Odor Threshold: No data available

pH: No data available Melting Point: 0 C Boiling Point: 100 C

Flash Point: No data available Flammable Limits in Air: N/A N/A Vapor Pressure: 14 mm (water) Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): 0.7 (water)

Specific Gravity: 1.01 Solubility in Water: Soluble

Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available

Viscosity: No data available Percent Volatile by Volume: N/A

Section 10

Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Water-reactive materials, Strong oxidizing agents

Hazardous Polymerization: Will not occur

Section 11 Data

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

Symptoms (Acute): Vomiting, Nausea, Diarrhea

No data available **Delayed Effects:**

Acute Toxicity:

Chemical Name CAS Number Oral LD50 **Dermal LD50** Inhalation LC50

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

Barium Chloride, Anhydrous 10361-37-2 Oral LD50

MAMMAL 398

mg/kg

Oral LD50 Rat 118

mg/kg

Carcinogenicity:

Chemical Name CAS Number IARC NTP OSHA No data available

Not listed Not listed Not listed

Chronic Effects:

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: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife.

Mobility: No data Persistence: No data Bioaccumulation: No data Degradability: No data Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity Water 7732-18-5 No data available

10361-37-2 Barium Chloride, Anhydrous 48 HR EC50 DAPHNIA MAGNA 14.5 MG/L

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): D005

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: Not regulated for transport by DOT Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ **CAA 112(2)**

Number TQ

Barium Chloride, Anhydrous 10361-37-2 Barium No No SARA 302: No

chloride CAS-No. 10361-37-2 Revision Date 2007-07-

01

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

Section 16

Additional Information

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 OSHA Occupational Safety and Health Administration PEL Permissible Exposure Limit

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 Toxic Substances Control Act

IDLH Immediately dangerous to life and health