

## LTS Research Laboratories, Inc. Safety Data Sheet Barium chloride dihydrate

## 1. Product and Company Identification

Trade Name: Barium chloride dihydrate

Chemical Formula: BaCl<sub>2</sub>\*2H<sub>2</sub>O

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

## 2. Hazards Identification

Signal Word: Danger



Hazard Statements: H301+H331: Toxic if swallowed or if inhaled.

Precautionary Statements: P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

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.

P301+P310: IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing.

P312: Call a POISON CENTER/doctor if you feel unwell.

P330: Rinse mouth.

P405+P233: Store in a well-ventilated place. Keep container tightly

closed

P501: Dispose of contents/ container to an approved waste disposal

plant.

HMIS Health Ratings (0-4):

Health: 2
Flammability: 0
Physical: 1

3. Composition	
Chemical Family:	Nonmetal
Additional Names:	Barium Chloride
Barium Chloride Dihydrate (BaCl <sub>2</sub> *2H <sub>2</sub> O)	:
Percentage:	100 wt%
CAS #:	10326-27-9
EC #:	233-788-1
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
T	Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any
Eyes:	contaminated clothing. Seek immediate medical attention. Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing. Seek medical
	attention
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Modio:	No special restrictions—use suitable extinguishing agent for
Extinguishing Media:	surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
	special protection information. Keep unprotected persons away. Isolate
	spill area and provide ventilation. Vacuum up spill using a high
	efficiency particulate absolute (HEPA) air filter and place in a closed
	container for disposal. Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Avoid contact with skin and eyes. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
work/rrygicine manifeliance.	eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
, characton,	To the Same of the relation to maintain concentration at of below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.5 mg/m³ as Ba, long-term value Threshold Limit Value: 0.5 mg/m³ as Ba, long-term value

Special Equipment: Properly operating chemical fume hood designed for hazardous

chemicals and having an average face velocity of at least 100 feet per

minute.

Respiratory Protection: Dust Respirator

Protective Gloves: Nitrile rubber gloves with minimum thickness of 0.11 mm

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color White

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorless
Water Solubility: Soluble
Boiling Point: N/A

Melting Point: 113°C (anhyd)

Flash Point: N/A
Autoignition Temperature: N/A
Density: 3.097 g/cc
Molecular weight: 244.27 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Strong oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume, Hydrogen chloride gas, Barium oxide

11. Toxicological Information

Potential Health Effects:

Eyes:May cause irritationSkin:May cause irritationIngestion:Toxic if swallowedInhalation:Toxic if inhaled

Chronic: N/A

Signs & Symptoms: Vomiting, diarrhea

Aggravated Medical Conditions: N/A

Median Lethal Dose: 51 mg/kg for mouse by intraperitoneal injection

Carcinogen: 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.

12. Ecological Information

Aquatic Toxicity: N/A
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A

Notes: Do not allow undiluted product or large quantities to reach ground

water, water course or sewage system. Avoid transfer into the environment.

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 6.1 Toxic substances

Packing Group:

UN Number: UN1564

Proper Shipping Name: Barium compounds, n.o.s. (Barium chloride dihydrate)

15. Regulatory Information

- Research

Sec 302 Extremely Hazardous:

No
Sec 304 Reportable Quantities:

N/A
Sec 313 Toxic Chemicals:

Yes

16 Other Information

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 04/26/2019