

LTS Research Laboratories, Inc. Safety Data Sheet Barium Fluoride

1. Product and Company Identification

Trade Name: Barium Fluoride

Chemical Formula: BaF₂

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: Toxic if swallowed

H332: Harmful if inhaled

Precautionary Statements: P261: Avoid breathing dust/fume/mist/vapor/spray

P264: Wash face, hands and any exposed 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 + P330: IF SWALLOWED: Immediately call a POISON

CENTER or doctor/physician. Rinse mouth.

P304 + P340 + P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 0

3. Composition	
Chemical Family: Additional Names:	Inorganic Material Barium(II) fluoride, Barium difluroide
Barium Fluoride (BaF ₂):	
Percentage:	100 wt%
CAS #: EC #:	7787-32-8 232-108-0
	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. Immediate medical attention is required.
Ingestion:	Give one to two glasses of water. Never induce vomiting or give anything by mouth to an unconscious person. Call a poison center or
Skin:	doctor/physician immediately. Wash affected area with mild soap and water. Remove any contaminated clothing. Immediate medical attention is required.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical
	advice.
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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. 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.
Environmental Precautions:	Take care not to raise dust. Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	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 eating and smoking. Do not blow dust off clothing or skin with compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.

8. Exposure Controls and Personal Protection Permissible Exposure Limits: 2.5 mg/m³ as BaF₂, long-term value Threshold Limit Value: 2.5 mg/m³ as BaF₂, long-term value Special Equipment: None Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves Eve 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:** 2260 °C Melting Point: 1354 °C Flash Point: N/A Autoignition Temperature: N/A Density: 4.89 g/cc Molecular weight: 175.32 g/mol 10. Reactivity Stable under recommended storage conditions Stability: Reacts With: Acids Redearch **Incompatible Conditions:** Excess heat Hazardous Decomposition Products: Hydrogen fluoride, Barium oxide 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: May cause irritation Toxic if swallowed Ingestion: Inhalation: Harmful if inhaled Chronic: N/A Signs & Symptoms: N/A Aggravated Medical Conditions: N/A Median Lethal Dose: LD50 Oral: 250 mg/kg for rat by mouth N/A Carcinogen: 12. Ecological Information Aquatic Toxicity: N/A Persistent Bioaccumulation Toxicity: N/A

13. Disposal Considerations

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

N/A

N/A

Very Persistent, Very Bioaccumulative:

Notes:

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 6.1 Poisonous Materials

Packing Group: III UN Number: UN1564

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

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes

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.

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