

LTS Research Laboratories, Inc. Safety Data Sheet Bismuth Chloride

1. Product and Company Identification

Trade Name: Bismuth Chloride

Chemical Formula: BiCl₃

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: H314: Causes severe skin burns and eye damage

H318: Causes serious eye damage

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapors/spray

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with water/shower P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting

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: 1

3. Composition

Chemical Family: Ceramic

Additional Names: Bismuth Trichloride, Bismuth (III) Chloride

Bismuth Chloride (BiCl₃):

Percentage: 100 wt.% CAS #: 7787-60-2 EC #: 232-123-2

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None **Important Symptoms:** None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Seek medical attention. Ingestion: Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Rub in calcium gluconate solution or calcium gluconate gel immediately. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Non-flammable Extinguishing Media: No special restrictions – use suitable extinguishing agent for 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 Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: 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. Take care not to raise dust. **Environmental Precautions:** 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. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: N/A Threshold Limit Value: N/A Special Equipment: None **Respiratory Protection: Dust Respirator** Protective Gloves: Rubber gloves Eve Protection: Safety glasses or goggles

Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

Body Protection:

9. Physical and Chemical Characteristics	
Color	White
Form:	Powder
Odor:	Odorless
Water Solubility:	Soluble
Boiling Point:	ca 430 °C
Melting Point:	230-232 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	4.75 g/cc
Molecular weight:	315.34 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts with:	Strong Oxidizing agents
Incompatible Conditions:	Water/ Moisture, Oxidizing agents
Hazardous Decomposition Products:	Hydrogen Chloride, Metal Oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious irritation
Skin:	Causes irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	Bismuth and bismuth compounds are often poorly absorbed. Should
	absorption occur, however, exposure may cause loss of appetite,
	headache, skin rash, exodermatitis, kidney injury and jaundice.
	Repeated or prolonged exposure may cause a bismuth line or black
	spots on the gums, foul breath and salivation. Chlorides may cause
	salivation, nausea, vomiting, diarrhea and abdominal pain, followed by
	weakness, tremors, shallow respiration, convulsions and coma. May
	cause brain and kidney damage. Chronic Chloride poisoning can cause
	severe bone changes, loss of weight, anorexia, anemia and dental
	defects.
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous



Hazard Class: 8 Corrosive substances.

Packing Group: III UN Number: UN3260

Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Bismuth Chloride)

Segregation groups: Acids

15. Regulatory Information

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

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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