

LTS Research Laboratories, Inc. Safety Data Sheet Terbium Fluoride

1. Product and Company Identification

Trade Name: Terbium fluoride

Chemical Formula: TbF₃

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: H302+H312: Harmful if swallowed or in contact with skin

H331: Toxic if inhaled H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing

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

in a position comfortable for breathing

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 0

3. Composition			
Chemical Family:	Salt		
Additional Names:	Terbium(III) fluoride		
Terbium fluoride (TbF ₃):			
Percentage:	100 wt%		
CAS #:	13708-63-9		
EC #:	237-247-0		
	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.		
Ingestion:	Seek medical attention.		
Skin:	Wash affected area with mild soap and water. Rub in calcium gluconate		
	solution or calcium gluconate gel immediately. Remove any		
Ever	contaminated clothing.		
Eyes:	Flush eyes with water, blinking often for several minutes. Remove 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.		
	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 Day and and	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		
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below		

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 2.5 mg/m³ as F, long-term value Threshold Limit Value: 2.5 mg/m³ as F, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

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: Insoluble **Boiling Point:** 2280 °C **Melting Point:** 1172 °C Flash Point: N/A **Autoignition Temperature:** N/A Density: 7.2 g/cc 215.92 g/mol Molecular weight:

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With:
Incompatible Conditions:

Oxidizing agents
None

Hazardous Decomposition Products: Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage

Skin: Harmful, Danger though skin absorption, Causes irritation.

Ingestion: Harmful Inhalation: Harmful

Chronic: Lanthanons can cause delayed blood clotting leading to hemorrhages.

Exposure may also lead to sensitivity to heat, itching, increased

awareness of odor and taste, and liver damage.

florides 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 Fluoride 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 for transportation.



Hazard Class: 6.1 Toxic substances

Packing Group: III UN Number: UN3288

Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Terbium fluoride)

15.	Regulatory	Information
		100

Sec 302 Extremely Hazardous:
Sec 304 Reportable Quantities:
Sec 313 Toxic Chemicals:

No
N/A
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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