

## LTS Research Laboratories, Inc. Safety Data Sheet Dysprosium Fluoride

	1. Product and Company Identification
Trade Name:	Dysprosium fluoride
Chemical Formula:	DyF <sub>3</sub>
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:	Warning
Hazard Statements:	H315 Causes skin irritation H319 Causes serious eye irritation H325 May cause papiratory irritation
	H319 Causes serious eye irritation H335 May cause respiratory irritation
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3. Composition		
Chemical Family:	Salt	
Additional Names:	Dysprosium(III) fluoride	
Dysprosium fluoride (DyF <sub>3</sub> ):		
Percentage:	100 wt%	
CAS #:	13569-80-7	
EC #:	236-992-9	
	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:	Give one to two glasses of water and induce vomiting. Never induce	
Skin:	vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any	
SKIII.	contaminated clothing.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
Lycs.	contact lenses if present and easy to do. Continue rinsing	
	5. Fire and Explosion Hazards Data	
Flammability:	Non-flammable, except as powder	
Flash Point:	N/A	
Autoignition Temperature:		
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.	
	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	
	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.	
	Do not store in ceramic or glass container.	
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. Ez	sposure Controls and Personal Protection	
Permissible Exposure Limits: 2.5 mg/m <sup>3</sup> as F, long-term value		
Threshold Limit Value:	$2.5 \text{ mg/m}^3$ as F, long-term value	
Special Equipment:	None	
Respiratory Protection:	Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a	
	backup to engineering controls. Risk assessment should be performed	
	to determine if purifying respirators are appropriate. Only use	
	equipment tested and approved under appropriate government	
	standards.	
Protective Gloves:	Nitrile rubber, NBR 0.11mm thick.	
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	Pale green	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble 2200 °C	
Boiling Point: Melting Point:	1360 °C	
Density:	7.5 g/cc	
Molecular weight:	219.49 g/mol	
Worceutar weight.		
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Metal oxide fume, Hydrogen fluoride	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
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.	
	Fluorides 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

Ecological data is not available.

## 13. Disposal Considerations

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

Hazardous:	Not hazardous for transportation.	
Hazard Class:	N/A	
Packing Group:	N/A	
UN Number:	N/A	
Proper Shipping Name:	N/A	
	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.

Document Last Revised:

07/21/2015