

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Dysprosium(III) Fluoride, anhydrous

Chemical Formula: DyF₃

Manufacturer Item Number: DY-1780

Manufacturer: Lorad Chemical Corporation
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2. HAZARD IDENTIFICATION

Signal Word: Warning

Pictograms:



Hazard Statements: H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Statements: P261 Avoid breathing dust / fumes / gas / mist / vapor / spray.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P405 Store locked up.
P501 Dispose of contents in accordance with local / regional / national / international regulations.

HMIS Health Ratings (0-4)

- Health: 1
- Flammability: 0
- Physical: 1

3. COMPOSITION

Additional Names: Dysprosium Fluoride

Percentage: 100 wt%

CAS #: 13569-80-7

EC #: 236-992-9

SAFETY DATA SHEET**4. FIRST AID PROCEDURES**

General Treatment	Consult a physician. Show this SDS to the doctor in attendance. Move out of dangerous area.
Special Treatment:	No Data Available.
Important Symptoms:	No Data Available.
Inhalation:	If breathing, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion:	Seek medical treatment.
Skin:	For skin contact, flush with large amounts of soap and water while removing contaminated clothing. Consult a physician.
Eyes:	Immediately flush eyes with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Consult a physician.

5. FIREFIGHTING MEASURES

Flammability:	Not flammable.
Special Hazards from Substance:	If material is involved in fire, may release Hydrogen fluoride, Dysprosium oxide
Extinguishing Media:	Use firefighting measures that suit the surrounding fire.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

If Material is Released / Spilled:	Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Dispose of waste in accordance with applicable federal, state, local, and provincial environmental regulations.
Environmental Precautions:	Prevent further leakage or spills if safe to do so. Do not allow to enter drains, sewers, or watercourses.

7. HANDLING AND STORAGE

Handling Conditions:	Handle under inert gas. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see Section 2.
Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place. Moisture sensitive, keep in a dry place. Do not store with acids or oxidizing agents.
Work / Hygienic Maintenance:	Moisture sensitive, work with under inert atmosphere. Keep away from foodstuffs, beverages, and feed.
Ventilation:	Keep in well ventilated place.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits:	Long term: 2.5 mg/m ³ as F
Threshold Limit Value:	Long term: 2.5 mg/m ³ as F, BEI

SAFETY DATA SHEET

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:	Wear respirator if there is dust formation or high concentrations of material present. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment.
Protective Gloves:	Handle with gloves. Gloves must be inspected prior to use. use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye Protection:	Safety glasses. Use equipment for eye protection tested and approved under government standards such as NIOSH (US) or EN 166(EU).
Body Protection:	Wear appropriate protective clothing.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Color:	white
Forms:	powder / crystalline
Odor:	odorless
Water Solubility:	Insoluble
Boiling Point:	2,200°C (3,992°F)
Melting Point:	1,360°C (2480°F)
Flash Point:	No Data Available.
Autoignition Temperature:	No Data Available.
Density:	5.95 g/cm ³
Molecular Weight:	219.49 g/mol

10. REACTIVITY

Stability:	Stable under recommended storage conditions.
Reacts with:	Reacts with strong oxidizing agents.
Incompatible Conditions:	Acids, Water / moisture, Oxidizing agents
Hazardous Decomposition Products:	Hydrogen fluoride, Dysprosium oxide

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:	
- Eyes	Causes serious eye irritation.
- Skin	Causes skin irritation.
- Ingestion	No Data Available.
- Inhalation	May cause respiratory irritation.
- Chronic	No Data Available.
Signs and Symptoms:	No Data Available.

SAFETY DATA SHEET

Aggravate Medical Conditions:	No Data Available.
Median Lethal Dose:	No Data Available.
Carcinogen:	Not classifiable as a human carcinogen: inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	No Data Available.
Persistence and degradability:	No Data Available.
Bioaccumulative potential:	No Data Available.
Notes:	No Data Available.

13. DISPOSAL CONSIDERATIONS

Disposal:	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Empty containers should be taken to an appropriated waste handling site for recycling or disposal. Dispose of in accordance with local, state, or national regulations.
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14. TRANSPORTATION DATA

Hazardous:	DoT: Not Dangerous Goods IMDG: Not Dangerous Goods IATA: Not Dangerous Goods
Pictogram:	N/A
Hazard Class:	N/A
Packing Group:	N/A
UN Number:	N/A
Proper Shipping Name:	N/A

15. REGULATORY INFORMATION

SARA 302 Components	No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	Acute Health Hazard
Massachusetts Right to Know Components	No components are subject to Ma. Right to Know Act.
Pennsylvania Right to Know Components	Dysprosium(III) Fluoride, anhydrous (CAS No. 13569-80-7)
New Jersey Right to Know Components	Dysprosium(III) Fluoride, anhydrous (CAS No. 13569-80-7)

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

16. OTHER INFORMATION

Copyright 2017 Lorad Chemical Corporation. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety standards. It does not represent a guarantee of the properties of the product. Lorad Chemical Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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