## Heegermaterials

Heeger Materials 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: Heeger Materials Inc.

Address: 230 Steele St Denver

CO 80206 United States

Tel #: 925-385-8104

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

## 2. Hazards Identification

Signal Word:

Warning Warning



Hazard Statements: H315 Causes skin irritation

H319 Causes serious eye irritation H335 May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

rınsıng.

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: 1 Flammability: 0 Physical: 1

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 Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Give one to two glasses of water and induce vomiting. Never induce Ingestion: vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing 5. Fire and Explosion Hazards Data Flammability: Non-flammable, except as powder Flash Point: Autoignition Temperature: No special restrictions – use suitable extinguishing agent for Extinguishing Media: 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. Isolate runoff to prevent environmental pollution. **Environmental Precautions:** 7. Handling and Storage Handling Conditions: Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. **Storage Conditions:** Do not store in ceramic or glass container. Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance: 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 F, long-term value Threshold Limit Value: 2.5 mg/m³ 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:
Water Solubility:
Boiling Point:
Melting Point:
Density:
Odorless
Insoluble
2200 °C
1360 °C
7.5 g/cc

Molecular weight: 219.49 g/mol

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, s	state, national, and international regulations.
	14. Transportation Data
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

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 ations ic. mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

16. Other Information

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