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# Stanford Advanced Materials

We not only sell products, we provide satisfactions.
72 Fairbanks Suite 100, Irvine, CA 92618, USA
Tel: (949) 407-8904 Fax: (949) 812-6690

Current Version: 2.0 Revision Date: Sep 5, 2012

## **Material Safety Data Sheet**

Identity: Dysprosium Fluoride Formula: DyF3

### Section I - General Information

Manufacturer: Stanford Advanced Materials (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM makes no warranty, expressed or implied with respect to such information and we assume no liability resulting from its use.

## Section II - Hazardous Ingredients/Identity Information

Dysprosium Fluoride

Concentration % - 100%

CAS # 13569-80-7

Exposure Limits ACGIH-TLV: 2.5mg F/m3

### **Section III - Physical/Chemical Characteristics**

Boiling Point: 2200°C Specific Gravity (water=1): 7.465 g/cm3

Melting Point: 1360.0°C Vapor Pressure: NA Physical States: Colorless crystals Vapor Density: NA

Evaporation Rate: NA Solubility in water: Insoluble

### **Section IV - Fire and Explosion Hazard Data:**

Flammability: No Flash Point: N/A

Wear protective firefighting clothing and self-contained breathing apparatus. Do not use water. Use Carbon Dioxide, dry chemical, extinguishing agents, dry sand, or dry ground dolomite.

## Section V - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat, sparks, open flames.

Incompatibility - Materials to Avoid: Acids, Acid fumes



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### Section VI - Health Hazard Data

Mode of Entry: Inhalation: Yes Skin: No

Carcinogenicity: NTP: No IARC: No OSHA: No

Acute Exposure:

Eyes: May cause irritation Skin: May cause irritation Ingestion: May be harmful Inhalation: May cause irritation Emergency and

First Aid:

In case of eye contact, flush eyes with lukewarm water for 15 minutes, and seek medical attention.

In case of skin contact, brush material off skin. Wash affected area with soap and water, seek medical attention.

In case of inhalation, remove victim to fresh air, administer oxygen if breathing is difficult, seek medical attention.

In case of ingestion, do induce vomiting. Give large quantities of water or milk if available. Contact a physician.

## Section VII - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled:

Wear appropriate respiratory and protective equipment specified in section VIII - control measures. Isolate spill area, provide ventilation and extinguish sources of ignition. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust. Use non-sparking tools.

Waste disposal method:

Dispose of in accordance with state, local, and federal regulations.

Hazard Label Information:

Store in cool, dry area. Store in tightly sealed container. Wash thoroughly after handling.

#### **Section VIII - Control Measures**

Protective Equipment Summary - Hazard Label Information:

NIOSH/MSHA approved respirator, Impervious gloves, Safety glasses, clothes to prevent skin contact.

Respiratory Protection (Specify Type) - NIOSH - approved dust respirator.

*Ventilation:* 

Local Exhaust: To maintain concentration at low exposure levels.

Mechanical (General): Recommended.

Protective Gloves: Rubber gloves. Eye Protection: Safety glasses.



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Other Protective Clothing or Equipment: Protective gear suitable to prevent contamination. Work/Hygienic/Maintenance Practices: Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. 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.