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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

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# Material Safety Data Sheet

Identity: Dysprosium oxide Formula: Dy2O3

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 – INGREDIENTS/SUMMARY OF HAZARDS CAS # 1308-87-8 % >99 OSHA/PEL Y

SECTION III - PHYSICAL DATA

Boiling Point: N/A <u>Melting Point</u>: 2340 ℃ (4244 F) <u>% Volatile:</u> N/A <u>Solubility in water</u>: Insoluble <u>Specific Gravity (H20=1)</u>: gm/cc <u>Evaporation Rate</u>: N/A <u>Vapor Density (air=1)</u>: N/A <u>Vapor Pressure (mm Hg)</u>: N/A <u>Physical State</u>: solid <u>Appearance and Odor</u>: White powder, odorless <u>Density</u>: 8016 g/ml at 25 ℃

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A Explosive limits: LEL: N/A UEL: N/A

Extinguishing Media: Not combustible. Use suitable extinguishing agent for surrounding materials and type of fire.

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes.



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Routes of Exposure: Inhalation, skin, eyes, ingestion

Inhalation:

Acute: May cause irritation to the upper respiratory system. Chronic: Not known *In Emergency Procedures:* Remove victim into fresh air; give oxygen if breathing is difficult and seek medical attention.

Ingestion:

Acute: Low acute toxicity

Chronic: Not known In Emergency Procedures: Give 1-2 glasses of water and induce vomiting; seek medical attention. Never induce vomiting or anything by mouth to an unconscious person. <u>Skin:</u> Acute: Non-irritating. Skin absorption not likely. Chronic: Not known In Emergency Procedures: Wash affected area with mild soap and water. Seek medical attention if symptoms persist. <u>Eyes:</u> Acute: May cause moderate irritation. Chronic: Not known In Emergency Procedures: Flush eyes with lukewarm water, lifting upper and lower eyelids, for at least 15 minutes. Seek medical attention if symptoms persist.

<u>Medical Conditions Generally Aggravated by Exposure:</u> Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. No specific antidote available.

SECTION VI – REACTIVITY DATA <u>Stability:</u> Stable <u>Conditions to Avoid:</u> Dusting conditions <u>Incompatibility:</u> Strong acids <u>Hazardous Decomposition Products:</u> Not known <u>Hazardous Polymerization:</u> Will not occur.

#### SECTION VII - ENVIRONMENTAL INFORMATION

<u>In case of spill or leakage:</u> Wear appropriate respiratory and protective equipment specified in section VIII- control measures. Isolate spill area and provide ventilation. Vacuum up spill using a



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high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust. Avoid prolonged contact with skin and eyes.

<u>Waste Disposal Method</u>: Dispose of in accordance with all applicable Federal, State and Local Regulations. Any containers or equipment used should be decontaminated immediately after use. Do not flush to drain.

<u>Hazard Label Information</u>: Keep container tightly closed. Store in cool,well-ventilated area. Wash thoroughly after use. Dry powders can build static electricity charges when subjected to the friction of conveying, mixing or sliding. Provide adequate precautions, such as electrical grounding or inert atmospheres when material is used in the presence of flammable materials to prevent ignition. When used for glass polishing, the suspension of polish becomes alkaline following the hydrolysis of the glass. It is strongly recommended that gloves and goggles be worn to prevent contact under these conditions.

#### SECTION VIII - CONTROL MEASURES/PROTECTIVE EQUIPMENT

<u>Protective Equipment Summary:</u> NIOSH approved respirator, impervious gloves, safety glasses and clothes to prevent skin contact.

Respiratory Equipment (specify type): NIOSH/MSHA approved respirator

Gloves: Rubber

#### **Other: Protective gear to prevent contamination**

<u>Work/Hygienic/Maintenance Practices:</u> 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 compressed air.