

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Dysprosium Oxide

1. Product and Company Identification Trade Name: Dysprosium oxide Chemical Formula: Dy_2O_3 Recommended Use: Scientific research and development XI'AN FUNCTION MATERIAL GROUP CO., LTD Manufacturer/Supplier: Street: No. 69, Gazelle Valley, High-Tech Zone City: XI'AN State: Shaanxi Zip Code: 710077 Country: China +86-29-88993870/+86-13519132051 Tel #: 2. Hazards Identification Signal Word: None Hazard Statements: None None **Precautionary Statements:** HMIS Health Ratings (0-4): Health: Flamm ability: Physical: 3. Composition Chemical Family: Ceramic Additional Names: Dysprosium(III) oxide Dysprosium oxide (Dy_2O_3): Percentage: 100 wt% CAS#: 1308-87-8 EC #: 215-164-0 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: Seek Medical Attention. Skin: Wash affected area with mild soap and water. Remove any contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes:

contact lenses if present and easy to do. Continue rinsing

5. Firefighting Measures Flammability: Non-flammable No special restrictions – use suitable extinguishing agent for Extinguishing Media: surrounding material and type of fire. Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 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: Handle under dry protective gas. Wash thoroughly after handling. Storage Conditions: Store in a cool dry place in a tightly sealed container. Store under dry inert gas. Store apart from materials and conditions listed in section 10. 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: N/A Threshold Limit Value: N/A Special Equipment: 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 White

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorless Water Solubility: Insoluble Boiling Point: N/A 2340 °C Melting Point: Flash Point: N/A Autoignition Temperature: N/A 7.81 g/cc Density: 372.998 g/mol Molecular weight:

10. Reactivity	
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	Water/moisture
Hazardous Decomposition Products:	Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	>5000 mg/kg for rat by mouth
Carcinogen:	N/A
	12. Ecological Information
	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	: No
Notes:	N/A
	13. Disposal Considerations
Dispose of in accordance with local, state, n	
	14. Transportation Data
Hazard ous:	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.

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