

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Dysprosium

1. Product and Company Identification

Trade Name: Dysprosium

Chemical Formula: Dy

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H228: Flammable solid

H260: In contact with water releases flammable gases which may ignite

spontaneously

Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces – No

smoking

P231+P232: Handle under inert gas. Protect from moisture

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P370+P378: In case of fire: Use special powder for metal fires for

extinction

P402+404: Store in a dry place. Store in a closed container P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4): Powder Pieces Bulk
Health: 1 1 1
Flammability: 3 2 1

Physical: 2 1 1

3. Composition

Chemical Family: Rare earth metal

Additional Names: None

Dysprosium (Dy):

Percentage: 100 wt% CAS #: 7429-91-6 EC #: 231-073-9

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: 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: Flammable as powder Extinguishing Media: Do not use water for metal fires – use CO₂, sand, extinguishing powder. 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 Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: 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 underdry 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: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles, Full face protection

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics				
Color	Grey to silver			
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts			
Odor:	Odorless			
Water Solubility:	Insoluble			
Boiling Point:	2567 °C			
Melting Point:	1412 °C			
Flash Point:	N/A			
Autoignition Temperature:	N/A			
Density:	8.55 g/cc			
Molecular weight:	162.50 g/mol			
	10. Reactivity			
Stability:	Stable under recommended storage conditions			
Reacts With:	Water, Halogens, Acid chlorides, Oxidizing agents			
Incompatible Conditions:	Air, Water/moisture			
Hazardous Decomposition Products:	Metal oxide fume			
1	1. 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			
66 W. W. C.				
Median Lethal Dose:	N/A			
Median Lonia Dose.	1711			
Carcinogen:	N/A			
· ·	12. Ecological Information			
Aquatic Toxicity:	Low			
Persistent Bioaccumulation Toxicity:	No			
Very Persistent, Very Bioaccumulative:				
Notes:	N/A			
	13. Disposal Considerations			

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous as powder:



Hazard Class: 4.1 Flammable solids, self-reactive substances and solid desensitized

explosives

Packing Group: II UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (Dysprosium powder)

Hazardous: Hazardous as pieces:



Hazard Class: 4.1 Flammable solids, self-reactive substances and solid desensitized

explosives

Packing Group: III UN Number: UN3178

Proper Shipping Name: Flammable solid, inorganic, n.o.s. (Dysprosium)

15. Regulatory Information

Sec 302 Extremely Hazardous:

Sec 304 Reportable Quantities:

No

No

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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