



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Dysprosium oxide**  
PRODUCT NO: 1664  
CAS NO: 1308-87-8  
SYNONYMS: Dysprosium (III) oxide, Didysprosium trioxide

### MANUFACTURER:

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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Not a dangerous substance according to the GHS

### HMIS CLASSIFICATION:

Health: 0 Flammability: 0 Reactivity: 0

### NFPA RATING:

Health: 0 Fire: 0 Reactivity Hazard: 0

**EYE CONTACT:** May cause mild to moderate irritation of the eyes.

**SKIN CONTACT:** May cause slight to mild irritation of the skin.

**INHALATION:** May be irritating to the nose, mucous membranes and respiratory tract.

**INGESTION:** No information available on the effects of ingestion.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $Dy_2O_3$

Molecular Weight: 372.99

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Dysprosium oxide	1308-87-8	100	No data	No data

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

## SECTION 4 FIRST AID MEASURES (Cont.)

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

**INGESTION:** Rinse mouth with water. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Material is non-flammable

**AUTO IGNITION TEMPERATURE:** None

**EXPLOSION LIMITS:** None

**EXTINGUISHING MEDIUM:** Use fire-fighting measures that suit the surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** No special fire fighting procedures. The material is non-flammable.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** No hazardous decomposition products.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** No unusual fire or explosion hazards.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Avoid dust formation. Avoid breathing vapors, mist, or gas.

**ENVIRONMENTAL PRECAUTIONS:** Do not let product enter drains.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Small spills can be mixed with vermiculite or sodium carbonate and swept up.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Keep container tightly sealed. Use appropriate exhaust ventilation.

**CONDITIONS FOR SAFE STORAGE:** Keep container tightly closed and store in a dry and well-ventilated place. Hygroscopic. Moisture sensitive.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EYE PROTECTION:** Always wear approved safety glasses with side shields, safety goggles, or face shield when handling a chemical substance in the laboratory.

**SKIN PROTECTION:** Chemical resistant gloves.

**VENTILATION:** If possible, handle the material in an efficient fume hood.

**RESPIRATOR:** If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White powder

**MELTING POINT:** 2480° C

**BOILING POINT:** No data available

**MOLECULAR WEIGHT:** 372.99

**ODOR:** None

**SPECIFIC GRAVITY:** 7.81 gm/ml

**VAPOR PRESSURE:** Not applicable

**SOLUBILITY IN WATER:** Insoluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

## SECTION 10 STABILITY AND REACTIVITY (Cont.)

**HAZARDOUS POLYMERIZATION:** No hazardous polymerization  
**CONDITIONS TO AVOID:** Strong acids, strong oxidizing agents, and Carbon dioxide.  
**INCOMPATIBILITY:** Water, moisture, and oxidizing agents.  
**DECOMPOSITION PRODUCTS:** Metal oxides

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat - > 5,000 mg/kg  
**CARCINOGENIC EFFECTS:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.  
**MUTAGENIC EFFECTS:** No data  
**TERATOGENIC EFFECTS:** No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

No information available

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state and federal regulations.

## SECTION 14 TRANSPORTATION DATA

Non-hazardous material

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA Inventory  
**SARA 302 COMPONENTS:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.  
**SARA (TITLE 313):** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.  
**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** No components are subject to the Massachusetts Right to Know Act.  
**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Didysprosium trioxide  
**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Didysprosium trioxide  
**CALIFORNIA PROP. 65 COMPONENTS:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16 OTHER INFORMATION

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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SDS DEPT.