



**MATERIAL SAFETY DATA SHEET**  
COMPLIES WITH 29 CFR 1910.1200.  
OSHA HAZARD COMMUNICATION RULE

REVISED DATE: 08-04-07

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## CHEMICAL IDENTITY

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LABEL IDENTITY	<b>Erbium Oxide</b>
CHEMICAL NAME/SYNONYMS	<b>Erbium Oxide</b>
FORMULA	<b>Er<sub>2</sub>O<sub>3</sub></b>
CAS REGISTRY NUMBER	<b>12061-16-4</b>
HAZARDOUS INGREDIENTS	<b>None Listed</b>

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## PHYSICAL AND CHEMICAL PROPERTIES

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COLOR, FORM AND ODOR	<b>Pink powder, target and pieces, no odor</b>
BOILING POINT	<b>NA</b>
DENSITY (gm/cc)	<b>NA</b>
VAPOR PRESSURE @ 20°	<b>NA</b>
% VOLATILE BY VOLUME (%)	<b>NA</b>
REACTION WITH WATER	<b>NA</b>
EVAPORATION RATE (H <sub>2</sub> O=1)	<b>NA</b>
SOLUBILITY IN WATER	<b>Insoluble</b>
MELTING POINT	<b>2400 C</b>
MOLECULAR WEIGHT	<b>NA</b>

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## FIRE AND EXPLOSION HAZARD DATA

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EXTINGUISHING MEDIA	<b>Use suitable extinguishing media for surrounding materials &amp; type of fire.</b>
GENERAL INFORMATION	<b>As in any fire, wear a self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.</b>

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## HEALTH HAZARD INFORMATION

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TOXICITY DATA: **NA**

ROUTES OF ENTRY	INHALATION:	<b>Yes</b>
	SKIN:	<b>Yes</b>
	INGESTION:	<b>Yes</b>

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: **Respiratory disorders**

EFFECTS OF OVEREXPOSURE (acute and chronic):

INHALATION: **NA**

DERMAL: **May cause slight irritation, rashes and skin granulomas.**

EYE: **May cause irritation.**



## ERBIUM OXIDE METAL MATERIAL SAFETY DATA SHEET

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CARCINOGENICITY: **None** NTP: **NA** IARC MONOGRAPHS: **NA** ACGIH: **NA**

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### EMERGENCY FIRST AID PROCEDURES:

INGESTION: **Give milk or water, induce vomiting and seek medical help. Never induce vomiting or give anything by mouth to an unconscious person.**

INHALATION: **Remove person to fresh air. If required, provide artificial respiration. Keep patient warm. Seek medical attention.**

SKIN CONTACT: **Wash skin with soap and water. Seek medical attention if irritation persists.**

EYE CONTACT: **Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.**

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### REACTIVITY DATA

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STABILITY

**Stable**

INCOMPATIBILITY (MATERIALS TO AVOID)

**Strong acids, air, carbon dioxide**

HAZARDOUS DECOMPOSITION PRODUCTS

**Metal oxide fume**

HAZARDOUS POLYMERIZATION

**Not occur**

CONDITIONS TO AVOID

**None**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: **Scoop or 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. Provide ventilation.**

WASTE DISPOSAL METHOD:

**Dispose as per local, state and federal regulations.**

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### SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE: **Store in tightly closed container in cool, dry place under dry inert gas. Wash hands and face thoroughly after handling.**

OTHER PRECAUTIONS: **Protective work clothing.**

TRANSPORTATION REQUIREMENTS

DOT CLASS: **NA**

UN NUMBER: **NA**

IMCO CLASS: **NA**

OTHER: **NA**

PRECAUTIONARY LABELING

**NONE**

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**NA= NOT APPLICABLE**

**ND= NO DATA FOUND**

**NR=NOT RECORDED**