

## Material Safety Data Sheet

### Erbium Oxide 99.5%Min

#### Section 1: Chemical Product and Company Identification

**Product Name:** Erbium Oxide

**Synonym:** Dierbium Trioxide; Erbia; Erbium (III) Oxide; ErBIUM (3+) Oxide; Erbium Sesquioxid

**Chemical Formula:** Er<sub>2</sub>O<sub>3</sub>

**Contact Information:** Changsha Easchem Co.,Limited

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#### Section 2: Composition and Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
12061-16-4	Erbium Oxide	99.5	235-045-7

**Hazard Symbols:** None Listed.

**Risk Phrases:** None Listed.

#### Section 3: Hazards Identification

##### Potential Acute Health Effects:

The toxicological properties of this material have not been fully investigated. Hygroscopic (absorbs moisture from the air). Air sensitive.

##### Potential Chronic Health Effects:

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause digestive tract disturbances. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: No information found..

#### Section 4: First Aid Measures

**Eye Contact:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

**Skin Contact:** After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

**Inhalation:** Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Serious Inhalation:** Not available.

**Ingestion:** Drink plenty of water, induce vomiting. Seek immediate medical attention.

**Serious Ingestion:** Not available.

#### Section 5: Fire and Explosion Data

**Flammability of the Product:** Not combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:** Not available.

**Fire Hazards in Presence of Various Substances:** Not available.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:** SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

#### **Section 6: Accidental Release Measures**

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

#### **Section 7: Handling and Storage**

##### **Handling:**

Wash thoroughly after handling. Use with adequate ventilation.

Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Handle under an inert atmosphere. Store protected from air.

##### **Storage:**

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not expose to air. Store protected from moisture. Store under an inert atmosphere..

#### **Section 8: Exposure Controls/Personal Protection**

##### **Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 12061-16-4: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

##### **Skin:**

Wear appropriate protective gloves to prevent skin exposure.

##### **Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

##### **Respirators:**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### **Section 9: Physical and Chemical Properties**

Physical State: Powder

Color: pink

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water: Insoluble.

Specific Gravity/Density: 8.6400 g/cm<sup>3</sup>

Molecular Formula: Er<sub>2</sub>O<sub>3</sub>

Molecular Weight: 382.5182.

#### **Section 10: Stability and Reactivity Data**

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, dust generation, moisture, exposure to air, exposure to moist air or water.

Incompatibilities with Other Materials:

Strong oxidizing agents, carbon dioxide, moisture, air.

Hazardous Decomposition Products:

Irritating and toxic fumes and gases.

Hazardous Polymerization: Has not been reported

#### **Section 11: Toxicological Information**

RTECS#:

CAS# 12061-16-4: KD9250000 LD50/LC50:

CAS# 12061-16-4: Draize test, rabbit, eye: 100 mg Mild; Oral, rat: LD50 = >5 gm/kg.

Carcinogenicity:

Erbium Oxide - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information..

#### **Section 12: Ecological Information**

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:** Not available.

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available.

#### **Section 13: Disposal Considerations**

**Waste Disposal:** Waste must be disposed of accordance with local environmental control regulations.

#### **Section 14: Transport Information**

IATA

Not regulated as a hazardous material.

IMO

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material..

#### **Section 15: Other Regulatory Information**

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28A After contact with skin, wash immediately with plenty of water.

S 36 Wear suitable protective clothing.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 12061-16-4: No information available.

Canada

CAS# 12061-16-4 is listed on Canada's DSL List.

CAS# 12061-16-4 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 12061-16-4 is listed on the TSCA inventory..

#### **Section 16: Other Information**

**References:** Not available.

**Other Special Considerations:** Not available.

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