

Material Safety Data Sheet

Identity: Europium oxide
Chemical Family: Rare Earth Oxide

Formula: Eu₂O₃

Section I - General Information

Manufacturer: [Stanford Advanced Materials](#) (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM makes no warranty, expressed or implied with respect to such information and we assume no liability resulting from its use.

Section II - Hazardous Ingredients/Identity Information

Molecular Weight: 351.92

| CAS # | % | OSHA/PEL | TLV |
|-----------|-----|----------|-----|
| 1308-96-9 | 100 | N/E | N/E |

Section III - Physical/Chemical Characteristics

| | |
|------------------------|----------------------------------|
| Boiling Point: 4118°C | Specific Gravity (water=1): 7.42 |
| Melting Point: 2291°C | Vapor Pressure: Essentially 0 |
| Physical States: Solid | Vapor Density: No data |
| Evaporation Rate: 0 | Solubility in water: Insoluble |
| | Percent Volatile: 0 |

Appearance and Odor: Pale rose colored powder, odorless

Section IV - Fire and Explosion Hazard Data:

Flash Point: N/A

Extinguishing Media: Non-flammable. Use water, carbon dioxide, dry chemical extinguishing agents, dry sand or dry ground dolomite.

Unusual fire and explosion hazards: None known

Section V - Reactivity Data

Stability: Stable

Conditions to Avoid: Thermal decomposition

Incompatibility - Materials to Avoid: Strong acids, moisture, CO₂

Hazardous Polymerization: Will not occur

Section VI - Health Hazard Data

Routes of Exposure:

Inhalation: Acute: May cause irritation. Chronic: None known.

Emergency: Seek medical attention.

Ingestion: Acute: May be harmful, effects not known. Chronic: None known.

Emergency: Seek medical attention.

Skin: Acute: None known. Chronic: None known.

Emergency: Remove contaminated clothing, flood skin with large amounts of water.

Seek medical attention.

Eyes: Acute: May cause irritation. Chronic: None known.

Emergency: Flush eyes, including lower eyelids, with large amounts of water for at least 15 minutes. Call a physician.

Section VII - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled:

Wear appropriate respiratory and protective equipment specified in section VIII - control measures.

Isolate spill area, provide ventilation and extinguish sources of ignition. 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. Use non-sparking tools.

Waste disposal method:

Dispose of in accordance with state, local, and federal regulations.

Hazard Label Information:

Store in cool, dry area. Store in tightly sealed container. Wash thoroughly after handling.

Section VIII - Control Measures

Protective Equipment Summary - Hazard Label Information:

NIOSH/MSHA approved respirator, Impervious gloves, Safety glasses, clothes to prevent skin contact.

Respiratory Protection (Specify Type) - NIOSH - approved dust respirator.

Ventilation:

Local Exhaust: To maintain concentration at low exposure levels.

Mechanical (General): Recommended.

Protective Gloves: Rubber gloves. *Eye Protection:* Safety glasses.

Other Protective Clothing or Equipment: Protective gear suitable to prevent contamination.

Work/Hygienic/Maintenance Practices: Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

Notes: Pinholes may occur in thin foils as metal ages.

Please be advised that N/A can either mean Not Applicable or No Data Has Been Established