



## Safety Data Sheet

In accordance with CFR 1910.1200 (OSHA HCS)

SDS No. 767

Review Date: September 29, 2020

### 1 Identification of substance and company

**Product name:** **Europium (III) oxide**  
**Product code:** 11752, 13699  
**Relevant use and restrictions on use:** Research and product development  
**Manufacturer/Supplier:** Noah Technologies Corporation  
1 Noah Park  
San Antonio, Texas 78249-3419  
Phone: 210-691-2000  
Fax: 210-691-2600  
Web site: www.noahtech.com  
**Emergency information:** CHEMTREC  
800-424-9300

### 2 Hazards identification

**Emergency Overview:** Not a hazardous substance  
**Hazards not otherwise classified:** None  
**GHS Classification:** None  
**HMIS ratings (scale 0-4):**  
Health hazard: 1\*  
Flammability: 0  
Physical hazard: 0

### 3 Composition/Information on ingredients

**Chemical name:** Europium (III) Oxide  
**CAS number:** 1308-96-9  
**EC number:** 215-165-6  
**Formula:**  $\text{Eu}_2\text{O}_3$   
**Synonyms:** Europia, europium sesquioxide, europium trioxide

### 4 First aid measures

**After inhalation:** Move victim to fresh air. If not breathing give artificial respiration.  
**After skin contact:** Flush with soap and water. If irritation develops consult a physician.  
**After eye contact:** Flush with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.  
**After ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water and consult a physician.  
**Information for doctor:** Show this safety data sheet to the doctor in attendance  
**Symptoms/effects; acute and delayed:** Rare earth compounds may cause delayed blood clotting leading to hemorrhages. Inhalation of rare earths may cause sensitivity to heat, itching, and increased awareness of odor and taste.  
**Immediate medical attention and special treatment needed:** No data available

### 5 Fire-fighting measures

**Suitable and unsuitable extinguishing agents:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide  
**Special hazards caused by the material, its products of combustion or resulting gases:** Oxides of europium  
**Special fire fighting procedures:** Wear self-contained breathing apparatus. Always wear full fire fighting equipment / clothing in fire situations.  
**Unusual fire and explosion hazard:** No data available

### 6 Accidental release measures

**Person-related safety precautions:** Avoid breathing dust, vapors, mist or gas.  
**Measures for environmental protection:** Do not let product enter drains.  
**Measures for cleaning/collecting:** Sweep or scoop up and remove. Prevent spread or spill. Place in suitable container for proper disposal.  
**Additional information:** See Section 7 for information on safe handling  
See Section 8 for information on personal protective equipment  
See Section 13 for information on disposal  
See Section 15 for regulatory information

## 7 Handling and storage

<b>Information for safe handling:</b>	Always wear personal protective equipment. Ensure adequate ventilation.
<b>Information about protection against explosions and fires:</b>	No data available
<b>Storage requirements to be met by storerooms and containers:</b>	Store in tightly closed container. Store in a cool, dry place.
<b>Incompatibility (avoid contact with):</b>	Strong acids. Strong oxidizers.
<b>Further information about storage conditions:</b>	No data available

## 8 Exposure controls/personal protection

<b>Ventilation requirements:</b>	Ensure adequate ventilation.
<b>Components with exposure limits that require monitoring:</b>	Contains no substances with occupational exposure limits.
<b>General protective and hygienic measures:</b>	The usual precautionary measures for handling chemicals should be adhered to Keep away from foodstuffs, beverages and food Instantly remove any soiled and impregnated garments Wash hands during breaks and at the end of the work Avoid contact with the eyes and skin
<b>Personal protective equipment:</b>	
<b>Respiratory protection:</b> (Use only NIOSH or CEN approved Equipment)	Filter-dust, fume, mist
<b>Hand protection:</b>	Handle with gloves: Neoprene / Natural rubber / Impervious Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with product.
<b>Eye protection:</b>	Safety glasses
<b>Skin protection:</b>	Protective work clothing sufficient to prevent contact.
<b>Additional protective equipment:</b>	Emergency eyewash and safety shower.
<b>Precautionary labeling:</b>	Do not get in eyes, on skin or on clothing Do not breathe dust, vapor, mist, gas

## 9 Physical and chemical properties

<b>Physical state:</b>	Powder or crystal
<b>Color:</b>	White
<b>Odor:</b>	No data available
<b>Odor threshold:</b>	No data available
<b>Molecular Weight (Calculated):</b>	351.93
<b>pH</b>	No data available
<b>Melting point/freezing point/range:</b>	No data available
<b>Boiling point/range:</b>	No data available
<b>Sublimation temperature/start:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Flash point:</b>	No data available
<b>Autoignition temperature:</b>	No data available
<b>Danger of explosion:</b>	No data available
<b>Flammable limits:</b>	
<b>Lower:</b>	No data available
<b>Upper:</b>	No data available
<b>Evaporation Rate:</b>	No data available
<b>Vapor pressure (mm Hg):</b>	No data available
<b>Vapor density:</b>	No data available
<b>Specific gravity:</b>	7.42 g/mL
<b>Bulk density:</b>	No data available
<b>Solubility in/Miscibility with water:</b>	No data available
<b>Partition coefficient n-octanol/water:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Other information:</b>	No data available

## 10 Stability and reactivity

<b>Reactivity:</b>	No data available
<b>Chemical stability:</b>	Stable under recommended storage conditions
<b>Possibility of hazardous reactions:</b>	No data available
<b>Conditions to be avoided:</b>	No data available See section 7 for information on proper handling and storage
<b>Materials to be avoided:</b>	Strong acids. Strong oxidizers.
<b>Dangerous reactions:</b>	No data available

**Hazardous decomposition products:** Oxides of europium  
(thermal and other)

#### 11 Toxicological information

**LD/LC50 values that are relevant for classification:** oral-rat LD<sub>50</sub>: > 5000 mg/kg

**Irritation or corrosion of skin:** No data available

**Irritation or corrosion of eyes:** No data available

**Primary irritant or corrosive effect:**

**on the skin:** No data available

**on the eye:** No data available

**Sensitization:** No data available

**Potential health effects:**

**Inhalation:** No data available

**Ingestion:** No data available

**Skin:** No data available

**Eyes:** No data available

**Signs and symptoms of exposure:** Moderately toxic by ingestion. Nuisance dust. Chronic exposure to high concentrations can cause damage to the mucous membranes and / or respiratory tract.  
Rare earth compounds may cause delayed blood clotting leading to hemorrhages. Inhalation of rare earths may cause sensitivity to heat, itching, and increased awareness of odor and taste.

**Carcinogenicity:** IARC: No component of this product is identified as probable, possible or confirmed human carcinogen by IARC.  
ACGIH: No component of this product is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product is identified as a carcinogen or potential carcinogen by OSHA.

**Additional information:** To the best of our knowledge the acute and chronic toxicity of this substance is not fully known

#### 12 Ecotoxicological information

**Toxicity:**

**Toxicity to fish:** No data available

**Toxicity to daphnia and other aquatic invertebrates:** No data available

**Toxicity to algae:** No data available

**Persistence and degradability:**

**Biodegradability:** No data available

**Bioaccumulative potential:**

**Bioaccumulation:** No data available

**Mobility in soil:** No data available

**Other adverse effects:** No data available

#### 13 Disposal considerations

**Recommendation:** Consult state, local or national regulation for proper disposal  
Allow professional disposal company to handle waste  
Must be specially treated under adherence to official regulations

**Unclean packagings recommendation:** Disposal must be made according to official regulations

#### 14 Transport information

##### Land transport DOT

**Proper shipping name:** Chemicals Non-Hazardous  
**Technical name:** Europium (III) oxide

##### Air transport ICAO-TI and IATA-DGR:

**Proper shipping name:** Chemicals Non-Hazardous  
**Technical name:** Europium (III) oxide

##### UPS Ground / FedEx Ground

**Proper shipping name:** Chemicals Non-Hazardous  
**Technical name:** Europium (III) oxide

##### UPS Air

**Proper shipping name:** Chemicals Non-Hazardous  
**Technical name:** Europium (III) oxide

#### 15 Regulatory information

**SARA Section 302 Extremely Hazardous**

**components and corresponding TPQs:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA Section 311 / 312 hazards:**

No SARA Hazards

**SARA Section 313 components:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313

**California Proposition 65 components:**

This product does not contain any chemicals known to the State of California to cause birth defects or any other reproductive harm.

**TSCA:**

Product is listed on the TSCA Inventory

#### 16 Other information

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulation are subject to change and the conditions of handling and use, or misuse are beyond our control. NOAH MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.