

# Material Safety Data Sheet

## Europium(III)oxide powder

Revision Date: 8/13/2019

Date Issued: 8/13/2019

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

<b>Product name</b>	Europium(III)oxide powder
<b>Product code</b>	NO-0021
<b>CAS</b>	1308-96-9
<b>REACH No. :</b>	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
<b>Identified uses</b>	Laboratory chemicals, Manufacture of substances
<b>Supplier</b>	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D – 74076 Heilbronn Germany
<b>Telephone</b>	+49 (0)7131-89839-0
<b>Fax</b>	+49 (0)7131-89839-109
<b>Emergency telephone</b>	+49 (0)176-84850874
<b>Email</b>	<a href="mailto:msds@iolitec.de">msds@iolitec.de</a>

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin corrosion/irritation, Category 2, H315

Serious eye damage/Eye irritation, Category 2, H319

# Material Safety Data Sheet

## Europium(III)oxide powder

Revision Date: 8/13/2019

Date Issued: 8/13/2019

---

Specific Target Organ Toxicity - Single exposure: Respiratory tract irritation,  
Category 3, H335

### Classification (67/548/EEC or 1999/45/EC)

Irritating to eyes, respiratory system and skin.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008, GHS)

Pictogram



Signal word

Warning

Hazard statement(s)

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

Precautionary statement(s)

P261

Avoid breathing dust/ fume/ gas/ mist/  
vapours/ spray.

P280

Wear protectic gloves/ protective clothing/ eye  
protection/ face protection.

P302 + P352

IF ON SKIN: Wash with plenty of soap and  
water.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for  
several minutes. Remove contact lenses, if  
present and easy to do. Continue rinsing.

Caution - substance not yet tested completely.

Supplemental Hazard Statements none

# Material Safety Data Sheet

## Europium(III)oxide powder

Revision Date: 8/13/2019

Date Issued: 8/13/2019

### Labelling (67/548/EEC or 1999/45/EC)

Hazard symbol(s)



R-pharse(s)

R36/37/38

Irritating to eyes, respiratory system and skin.

S-pharse(s)

S26

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

S36

Wear suitable protective clothing.

Caution - substance not yet tested completely.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Contents	Health(Class)	Risk(R/No.)
Europium(III)oxide	99.99%		Substance not yet fully tested!
<b>Formula</b>	<b>Molecular Weight</b>		
Eu <sub>2</sub> O <sub>3</sub>	351.93 g/mol		

### 4 FIRST AID MEASURES

**General**

Contaminated clothing should be removed and washed before being reused.

**Inhalation**

Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/ oxygen.

**Ingestion**

Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention immediately.

# Material Safety Data Sheet

## Europium(III)oxide powder

Revision Date: 8/13/2019

Date Issued: 8/13/2019

---

<b>Skin</b>	Wash the skin immediately with soap and water.
<b>Eyes</b>	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

### 5 FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Use extinguishing media appropriate to surrounding fire conditions.
<b>Special fire fighting procedures</b>	No special procedures required.
<b>Unusual fire &amp; explosion hazards</b>	Emission of toxic fumes
<b>Protective measures in fire</b>	Wear self-contained breathing apparatus as combustion may produce hazardous fumes.

### 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions during spill</b>	Wear protective clothing and avoid inhalation of powder, fume and vapor as well as skin or eye contact.
<b>Precautions to protect environment</b>	Avoid washing into water courses. Avoid contaminating public drains or water supply.
<b>Spill cleanup methods</b>	Avoid contact with skin or inhalation of spillage, dust or vapor, Avoid dust formation. Collect and reclaim or dispose in sealed containers in license waste. Extinguish all

# Material Safety Data Sheet

## Europium(III)oxide powder

Revision Date: 8/13/2019

Date Issued: 8/13/2019

---

ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

### 7 HANDLING AND STORAGE

#### Handling precautions

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

#### Storage precautions

Keep container tightly closed. Store in a cool, dry place. Hygroscopic material.

### 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Personal protective equipment

##### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# Material Safety Data Sheet

## Europium(III)oxide powder

Revision Date: 8/13/2019

Date Issued: 8/13/2019

### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)..

**Exposure limits** N/A

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Solid
<b>Melting Point</b>	2291°C
<b>Boiling Point</b>	4118°C
<b>SG/Density</b>	7.42 g/cm <sup>3</sup> at 20°C
<b>Solubility</b>	Insoluble in water

## 10 STABILITY AND REACTIVITY

<b>Stability</b>	No particular stability concerns.
<b>Conditions/materials to avoid</b>	Acids, air, carbon dioxide
<b>Hazardous Decomposition</b>	Hazardous products of decomposition: Metal oxide fume

## 11 TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	
LD50, oral, rat	>5000 mg/kg
<b>Skin corrosion/irritation</b>	
no data available	

# Material Safety Data Sheet

## Europium(III)oxide powder

Revision Date: 8/13/2019

Date Issued: 8/13/2019

---

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

**Ingestion**

May be harmful if swallowed.

**Inhalation**

May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

**Skin**

May cause irritation

**Eyes**

Causes irritation

**Additional Information**

RTECS: Not available

**Full Data on the toxicity of this product are not available. Hazardous properties cannot be excluded.**

# Material Safety Data Sheet

## Europium(III)oxide powder

Revision Date: 8/13/2019

Date Issued: 8/13/2019

### 12 ECOLOGICAL INFORMATION

Do not allow material to be released to the environment without proper governmental permits.

### 13 DISPOSAL CONSIDERATIONS

**Disposal method** Contact specialist disposal companies. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.

### 14 TRANSPORT INFORMATION

<b>General</b>	Not classified as dangerous for transport purposes.
<b>Road transport notes</b>	Not classified as dangerous for road transport.
<b>Rail transport notes</b>	Not classified as dangerous for rail transport.
<b>Sea transport notes</b>	Not classified as dangerous for sea transport.
<b>Air transport notes</b>	Not classified as dangerous for air transport.



# Material Safety Data Sheet

## Europium(III)oxide powder

Revision Date: 8/13/2019

Date Issued: 8/13/2019

### 15 REGULATORY INFORMATION

#### REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### **National safety, health and environmental regulations/legislation specific for the substance or mixture**

Classification according to German Regulation VwVwS;  
WGK 2 (self classification) – hazardous to waters

### 16 OTHER INFORMATION

#### DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPOSED TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. IOLITEC SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR ANY PROCESS. IT IS THE USERE'S RESPONISIBILTY TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

IN NO WAY SHALL IOLITEC BE LIABLE FOR ANY CLAIMS, LOSSES OR DAMAGES OF ANY THIRD PARTY OR FOR THE LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.