

# Dysprosium(III)oxide powder

Revision Date: 10/10/2018 Date Issued: 10/10/2018

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

Product name Dysprosium(III)oxide powder

 Product code
 NO-0019

 CAS
 1308-87-8

**REACH No.:** 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.

Identified uses Laboratory chemicals, Manufacture of substances

Supplier IoLiTec

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#### **2 HAZARDS IDENTIFICATION**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Not a dangerous substance according to GHS.

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#### 2.2 Label elements

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

Not a dangerous substance according to GHS.

Label for supply none

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/

vapours/ spray .

Caution - substance not yet tested completely.
Supplemental Hazard Statements none

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

Label for supply none

S-phrase(s)

S36/37/39 Wear suitable protective clothing, gloves and

eye/face protection.

Caution - substance not yet tested completely.

#### **3 COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient name Contents Health(Class) Risk(R/No.)

Dysprosium(III)oxide 99.9% Substance not yet fully tested!

Formula Molecular Weight

 $Dy_2O_3$  373 g/mol

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#### **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.

**Skin** Wash the skin immediately with soap and

water.

**Eyes** 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**

**Extinguishing media** Water spray, carbon dioxide, dry chemical

powder, or appropriate foam.

**Special fire fighting procedures** No special procedures required.

Unusual fire & explosion hazards Emission of toxic fumes

Protective measures in fire Wear self-contained breathing apparatus as

combustion may produce hazardous fumes.

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#### **6 ACCIDENTAL RELEASE MEASURES**

**Personal precautions during spill** Wear protective clothing and avoid inhalation

of powder, fume and vapor as well as skin or

eye contact.

**Precautions to protect** 

**environment** Avoid washing into water courses. Avoid

contaminating public drains or water supply.

Spill cleanup methods 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 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 closed. This product is air and

moisture sensitive.

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#### **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.

#### **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

Appearance Solid

Odor/taste No characteristic odor.

Melting point: 2340 °C

**Density** 7.81 g/cm<sup>3</sup> (20°C)

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#### **10 STABILITY AND REACTIVITY**

Stability Moisture and air sensitive (absorbs carbon

dioxide)

Conditions/materials to avoid Strong oxidizing agents, phosphorous

pentachloride, chlorine trifluorine or bromine

pentafluorine.

**Hazardous Decomposition** Carbon monoxide and dioxide.

#### 11 TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

no data available

Skin corrosion/irritation

no data available

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

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#### Subacute to chronic toxicity

no data available

Potential health effects

**Ingestion** May be harmful if swallowed.

**Inhalation** May be harmful if inhaled. Material may be

irritating to mucous membranes and upper

respiratory tract.

**Skin** May cause irritation

**Eyes** May cause irritation

**Additional Information** 

RTECS: Not available

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

#### 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.

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#### 14 TRANSPORT INFORMATION

General Not classified as dangerous for transport

purposes.

**Road transport notes**Not classified as dangerous for road transport.

Rail transport notes Not classified as dangerous for rail transport.

**Sea transport notes**Not classified as dangerous for sea transport.

Air transport notes Not classified as dangerous for air transport.

#### 15 REGULATORY INFORMATION

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

Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

**Chemical Safety Assessment** 

no data available

Country specific information:

Germany

WGK2 - hazardous to waters (self classification)

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#### 16 OTHER INFORMATION

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