

# Safety Data Sheet

## Yttrium(III)oxide powder

Revision Date: 10/29/2018

Date Issued: 10/29/2018

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

<b>Product name</b>	Yttrium(III)oxide powder
<b>Product code</b>	NO-0030
<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>Supplier</b>	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D-74076 Heilbronn Germany
<b>Telephone</b>	+49 (0)7131 - 898390
<b>Fax</b>	+49 (0)7131 - 89839109
<b>Emergency telephone</b>	+49 (0)176 - 84850874
<b>Email</b>	msds@iolitec.de

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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

Irritating to eyes, respiratory system and skin.

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

Skin corrosion/irritation, Category 2, H315

Serious eye damage/Eye irritation, Category 2, H319

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

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Category 3, H335

## 2.2 Label elements

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

Hazard description:

Label for supply



Xi Irritant

Information pertaining to particular dangers for man and environment

### Risk phrases

R36/37/38: Irritating to eyes, respiratory system and skin.

### Safety phrases

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36: Wear suitable protective clothing.

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

Hazard statements



Warning

### H-phrases

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Precautionary statements

### P-phrases

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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.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

<b>Ingredient name</b>	Yttrium(III)oxide
<b>CAS No.</b>	1314-36-9
<b>Empirical Formula</b>	Y <sub>2</sub> O <sub>3</sub>
<b>Molecular weight</b>	225.81 amu

### 4 FIRST AID MEASURES

<b>General</b>	Contaminated clothing should be removed and washed before being reused.
<b>Inhalation</b>	Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen.
<b>Ingestion</b>	Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention immediately.
<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.

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### 5 FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Suitable: Non combustible. 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 respirator 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 ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

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### 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 closed. Store at moderate temperatures in dry, well ventilated area.

### 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 P2 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-

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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

<u>Yttrium and compounds, as Y</u>	<u>mg/m<sup>3</sup></u>
ACGIH TLV	1
Belgium TWA	1
Germany TWA	5 – inhalable fraction of aerosol
Switzerland TWA	1
United Kingdom TWA	1; 3 – STEL
Netherlands TWA	1
Denmark TWA	1
Finland TWA	1
Ireland TWA	1; 3 – STEL
OSHA PEL	1

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Solid
<b>Odor/taste</b>	No characteristic odor.
<b>Melting Point</b>	2435 °C
<b>SG/Density</b>	5.01 g/cm <sup>3</sup>
<b>Solubility in Water</b>	Insoluble

## 10 STABILITY AND REACTIVITY

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<b>Stability</b>	No particular stability concerns.
<b>Conditions to avoid</b>	Acids, Air
<b>Hazardous Decomposition Products</b>	Consistency of decomposition products unknown.

### 11 TOXICOLOGICAL INFORMATION

<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.
<b>Skin</b>	May cause irritation and allergic reaction.
<b>Eyes</b>	May cause irritation and allergic reaction.

### 12 ECOLOGICAL INFORMATION

Do not release material to the environment

### 13 DISPOSAL CONSIDERATIONS

**Disposal method** Contact specialist disposal companies. Disposal must be made according to Local Authority requirements. Recover and reclaim or recycle, if practical.

### 14 TRANSPORT INFORMATION

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<b>General</b>	Not classified as dangerous for transport purposes.
<b>UN No.</b>	0
<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.

### 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;  
Reg.no. 4468 (Appendix 3): WGK 1 - low hazard to waters

### 16 OTHER INFORMATION

#### DISCLAIMER

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