

Titanium Oxide powder rutile

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

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

Product name Product code CAS REACH No. :	Titanium Oxide powder rutile NO-0051 1317-80-2 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 Ionic Liquids Technologies GmbH Salzstrasse 184 D – 74076 Heilbronn Germany
Telephone Fax Emergency telephone Email	+49 (0)7131-89839-0 +49 (0)7131-89839-109 +49 (0)176-84850874 msds@iolitec.de

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULTATION (EC) No 1272/2008)

Acute toxicity (inhalation), Category 4, H332

Serious eye damage/Eye irritation, Category 2, H319

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

Category 3, H335



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

Harmful by inhalation. Irritating to eyes, respiratory system and skin.

Supplemental Hazard Statements none

2.2 Label elements

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

Pictogram

Signal word

Warning

Hazard statement(s)	
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
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.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Hazard symbol(s)





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R-phrase(s)		
R20		Harmful by inhalation.
R36/37/38		Irritating to eyes, respiratory system and skin.
S-phrase(s)		
S26		In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36		Wear suitable protective clothing.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Contents	Health(Class) Risk(R/No.)
Titanium(IV)oxide	>99%	Substance not yet fully tested!
	Meleculer	Maint

Formula TiO₂ Molecular Weight 79.9 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.
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



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least 15 minutes. Get medical attention immediately. Continue to rinse.

5 FIRE FIGHTING MEASURES

Extinguishing media	Use extinguishing media appropriate to
	surrounding fire conditions.
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.

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.
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.



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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 container tightly closed.

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).



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Exposure limits

<u>TiO₂</u>	mg/m ³
Poland NDS	10; 30-NDSCh
Denmark TWA	6
Germany OEL	6
Norway OEL	5
Switzerland OEL	6
United Kingdom TWA	10

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid
Color	White
Melting Point	1850°C
Solubility	Insoluble

10 STABILITY AND REACTIVITY

Stability	No particular stability concerns.
Conditions/materials to avoid	Strong acids
Hazardous Decomposition	Hazardous products of decomposition: Not
	known

11 TOXICOLOGICAL INFORMATION

Acute toxicity

LD50, oral, Rat

> 10000 m	ng/kg
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LD50, skin, rabbit

> 10000 mg/kg

Skin corrosion/irritation



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Skin-Human	Result: Mild skin irritation-3 h	
Serious eye damage/eye irritation		
Eyes-rabbit	Result: No eye irritation	
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 may be	
irritating to mucous membranes and upper respiratory tract.		

5	
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.



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12 ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish> 1.000 mg/l-96 hLC50-other fish> 1.000 mg/l-96 hToxicity to daphnia and other aquatic invertebratesEC50-Daphnia magna (Water flea)> 1.000 mg/l-48 h

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 INFORMATIONGeneralNot classified as dangerous for transport
purposes.Road transport notesNot classified as dangerous for road transport.Rail transport notesNot classified as dangerous for rail transport.Sea transport notesNot classified as dangerous for sea transport.Air transport notesNot classified as dangerous for air transport.



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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

Classification according to German Regulation VwVwS; Reg.no. 1345: non hazardous to waters

16 OTHER INFORMATION

DISCLAIMER

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