

Trade name: Titanii dioxidum

Substance number: 068344

Version: 4 / CH

Date revised: 18.01.2023

Replaces Version: 3 / CH

Print date: 18.01.23

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Titanii dioxidum

Item No. 06834400

Substance / product identification

CAS-No. 13463-67-7

EINECS-No. 236-675-6

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Pigment, Food, Manufacture of cosmetics, Manufacture of pharmaceutical products

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible
for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Voluntary product information following the Safety Data Sheet format

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

Supplemental information

EUH212

Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

2.3. Other hazards

The product does not require a hazard warning label in accordance with Directive 67/548/EC

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

Further ingredients

titanium dioxide

CAS No. 13463-67-7

EINECS no. 236-675-5

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Registration no. 01-2119489379-17-XXXX
Concentration >= 95 %
Advice: [4]

Note

[4] Voluntary information

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash immediately with plenty of water for several minutes.

After eye contact

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

After ingestion

Rinse out mouth and give plenty of water to drink. Summon a doctor immediately.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Extinguishing measures to suit surroundings

5.2. Special hazards arising from the substance or mixture

The product is not combustible.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use personal protective clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Ensure adequate ventilation.

6.2. Environmental precautions

No special measures required.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. For tall amounts: Take up mechanically and collect in suitable container for disposal. Avoid raising dust.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide exhaust ventilation if dust is formed.

Advice on protection against fire and explosion

No special measures required. The product is not combustible.

7.2. Conditions for safe storage, including any incompatibilities

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Storage classes

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	NG	Other solid hazardous substances without classification/labelling hazardous

Further information on storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8: Exposure controls/personal protection *****8.1. Control parameters****Exposure limit values *******titanium dioxide**

List	SUVA
Type	MAK
Value	3 mg/m ³
Pregnancy group: S; Remarks: SSc; UAW; NIOSH s. 1.8.2	

8.2. Exposure controls**General protective and hygiene measures**

Do not breathe dust. Wash hands before breaks and after work.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Particle filter half mask, filter FFP2 - Norm DIN EN 149; Particle filter P2; EN 143

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Eye protection

Safety glasses

Body protection

Protective clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Powder
Colour	white
Odour	odourless
Melting point	
Value	> 1800 °C
Upper and lower explosive limits	
Remarks	Not applicable
Flash point	
Value	°C
Remarks	Not applicable
Ignition temperature	
Remarks	Not applicable
Decomposition temperature	

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Remarks No decomposition if used as prescribed.

pH value

Value	7	to	8.5
Concentration/H ₂ O	100	g/l	
Temperature	20	°C	

9.2. Other information**Solubility in water**

Remarks insoluble

Bulk density

Value	500	to	900	kg/m ³
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Other information

The product is not dangerous for explosions.

SECTION 10: Stability and reactivity**10.5. Incompatible materials**

None

SECTION 11: Toxicological information *****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity (Components)****titanium dioxide**

Species	rat	
LD50	> 5000	mg/kg
Method	OECD 425	

Acute dermal toxicity (Components)**titanium dioxide**

Species	rabbit	
LD50	> 5000	mg/kg

Acute inhalative toxicity (Components)**titanium dioxide**

Species	rat	
LC50	> 6.8	mg/l

Skin corrosion/irritation (Components)**titanium dioxide**

evaluation	non-irritant
Method	OECD 404

Serious eye damage/irritation (Components)**titanium dioxide**

evaluation	non-irritant
Method	OECD 405

Sensitization (Components)**titanium dioxide**

evaluation	non-sensitizing
Method	OECD 406

titanium dioxide

Method	OECD 429
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Subacute, subchronic, chronic toxicity (Components)**titanium dioxide**

Route of exposure	oral		
Species	rat		
NOAEL	3500		mg/kg/d
Duration of exposure	90	d	

titanium dioxide

Route of exposure	inhalative		
Species	rat		
NOAEC	10		mg/m ³
Duration of exposure	90	d	

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****titanium dioxide**

Species	Cyprinodon variegatus		
LC50	> 10000		mg/l
Method	OECD 203		

titanium dioxide

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	> 1000		mg/l
Method	static; EPA-540/9-85-006 (Acute Toxicity Test for Freshwater Fish)		

Daphnia toxicity (Components)**titanium dioxide**

Species	Daphnia magna		
LC50	> 1000		mg/l
Method	OECD 202		

titanium dioxide

Species	Acartia tonsa		
LC50	> 10000		mg/l
Method	OECD 202		

Algae toxicity (Components)**titanium dioxide**

Species	Pseudokirchneriella subcapitata		
EC50	> 100		mg/l
Method	OECD 201		

titanium dioxide

Species	Skeletonema costatum		
EC50	> 10000		mg/l
Method	DIN EN ISO 10253		

12.2. Persistence and degradability**Biodegradability (Components)****titanium dioxide**

evaluation	not degradable
Remarks	Inorganic product, cannot be eliminated from the water by biological

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purification processes.

12.3. Bioaccumulative potential**General information**

Not applicable

12.4. Mobility in soil**Mobility in soil (Components)**

titanium dioxide

Immobile

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information / ecology**

Product is insoluble in water.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information *****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany) *****

Water Hazard Class Not water hazardous

(Germany)

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

SECTION 16: Other information

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Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.