## **Material Safety Data Sheet**

according to Regulation (EC) No 1907/2006 and 1272/2008

#### SACHTOPORE Print date: 17.12.2013 Approval date: 26.09.2013 Revision: 0



# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
 Product Code:
 Types:

REACH Registration Nr.: 01-2119489379-17-0005

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

Uses advised against:

 1.3 Details of the supplier of the safety data sheet Manufacturer / supplier: Sachtleben Chemie GmbH Dr.-Rudolf-Sachtleben-Str. 4 D-47198 Duisburg, Germany Phone: +49 2066 22-0 +49 2066 22-2000 Fax: info@sachtleben.de Mail: Product Safety: product-safety@sachtleben.com 1.4 Emergency +49 30 30686 790 Giftnotruf Berlin (German/English) +1 800 255 3924 CHEMTEL (U S A) telephone number

(Finland)

## 2. POSSIBLE HAZARDS

#### · 2.1 Classification of the substance or mixture

The product is not classified hazardous according to the Regulation (EC) No 1272/2008 and the Council Directives 67/548/EEC and 1999/45/EEC, dangerous. Therefore no obligation exists to issue a safety data sheet according to REACH Art. 31.

+358 9 471 977 or +358 9 4711 Poison Information Center

• 2.2. Label elements No special labelling required.

· 2.3 Other hazards

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### · 3.1 Chemical Characterisation (Substance)

CAS-Nr.	EINECS-Nr.	Substance identification acc. to EC directive	Danger symbol	Riskphrases
13463-67-7	236-675-5	Titanium dioxide, TiO <sub>2</sub>	-	-

REACH Registration Nr.: 01-2119489379-17-0005 (GERMANY)

 3.2 Chemical Characterisation (Mixture) Description: No mixture Hazardous components: -

## **4. FIRST AID MEASURES**

#### · 4.1 Description of first aid measures

General indications:	No hazards which require special first aid measures.
Inhalation:	Move to fresh air. Give symptomatic treatment as necessary.
Skin contact:	Wash with soap and water.
Eye contact:	Wash with water or neutral eyewash solution.
Ingestion:	Do not induce vomiting. Give up to 200 ml water. In case of
	persistent symptoms, consult a doctor.

- · 4.2 Most important symptoms and effects, both acute and delayed
- · 4.3 Indication of any immediate medical attention and special treatment needed

## **5. FIREFIGHTING MEASURES**

- **5.1 Extinguishing media** No restrictions
- **5.2 Special hazards arising from the substance or mixture** The product itself does not burn. Product is inert, inflammable and incombustible.
- 5.3 Advice for firefighters

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid dust formation. Ensure adequate ventilation.
- **6.2 Environmental precautions** Avoid dust dispersion to the environment. Dust may cause the surroundings to become white. Prevent leakages from entering drains and ditches that lead to natural waterways.

- 6.3 Methods and material for containment and cleaning up Use any suitable mechanical means (e.g. vacuum, sweeping), but avoid dusting during clean-up.
- 6.4 Reference to other sections

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## 7. HANDLING AND STORAGE

#### · 7.1 Precautions for safe handling

Avoid dust formation during handling. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. In case of insufficient ventilation, wear suitable respiratory equipment.

## · 7.2 Conditions for safe storage, including any incompatibilities

Fire Precautions:The product is not flammableStorage conditions/Keep in a dry place.packing material:No restrictions

7.3 Specific end use(s)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### · 8.1 Control parameters

Substance	<b>Titanium di</b> 13463-67		Dust, inha	lable	Dust, respir	able
CAS No.	Limit value - Eight hours mg/m <sup>3</sup>	Limit value - Short term mg/m <sup>3</sup>	Limit value - Eight hours mg/m³	Limit value - Short term mg/m <sup>3</sup>	Limit value - Eight hours mg/m³	Limit value - Short term mg/m <sup>3</sup>
Austria	-	-	10	20	5	10
Belgium	10		10		3	
Canada -	10					
Québec						
Denmark	6 total dust	12 total dust	10	20		
European						
Union						
France	11 inhalable aerosol		10		5 respirable aerosol	
Germany			10	20	3	6
(AGS)						
Germany			4		1,5	
(DFG)						
Hungary			10		6	
Italy						
Japan						
Poland	10	30				
Spain	10 inhalable aerosol		10		3	
Sweden	5 inhalable aerosol		10		5 3	
Switzerland	3 respirable aerosol		10		3	
The						
Netherlands						
USA - OSHA	15 total dust		15		5	
United Kingdom	10 inhalable aerosol					
	4 respirable aerosol					
Remarks:	•					
	Austria		*Dalaharan D	della statuta	*STV 15 minutes a	
	France		*Bold type: Rest	rictive statutory	*Bold type: Restric	tive statutory
	Germany(AGS)		limit values *15 minutes ave	rage value,	limit values *15 minutes averaç	ge value,

Germany(DFG)	insoluble particulates *long term exposure level, insoluble particulates	insoluble particulates *insoluble particulates	

#### · 8.2 Exposure controls

Engineering measures:	None required			
Personal Protection Equipment				
Industrial hygiene measures:	Maintain exposures below applicable exposure limits:			
Respiratory protection:	A respirator must be used if the dust concentration is likely to exceed the occupational exposure limit. At higher concentrations wear particle filter DIN EN 143 - P2.			
Hand protection:	Prolonged exposure should be avoided by wearing suitable protective gloves and clothing.			
Eye protection:	The use of an approved dustproof goggles is recommended if the dust concentration is likely to exceed the occupational exposure limit			
Skin protection:	TiO2 pigments are not irritant but as with all fine powders can adsorb moisture and natural oils from the surface of the skin during prolonged exposure. Prolonged exposure should be avoided by wearing suitable protective gloves and clothing.			

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Appearance Physical State: powder	Colour: white	Odour: none
Critical Data Melting point or range: Boiling point or range: Flash point: Ignition temperature: Auto-ignition temperature: Oxidizing properties: Explosive properties: Explosive properties: Explosivity or flammability limit in air: Vapour pressure: Density: Solubility: pH-value: Partition coefficient: Viscosity:	<ul> <li>&gt; 1,800 °C</li> <li>not applicable</li> <li>not flammable</li> <li>not flammable</li> <li>not flammable</li> <li>none</li> <li>no danger of explosion.</li> <li>-</li> <li>not applicable</li> <li>approx. 3,9 g/ml</li> <li>practically insoluble</li> <li>approx. 7,5</li> <li>not applicable</li> <li>not applicable</li> <li>not applicable</li> </ul>	
9.2 Other information		

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## **10. STABILITY AND REACTIVITY**

- 10.1 Reactivity
  - No special reactivity known.

- **10.2 Chemical stability** Stable under normal use conditions
- **10.3 Possibility of hazardous reactions** No hazardous reactions known.
- **10.4 Conditions to avoid** Stable under normal use conditions
- **10.5 Incompatible materials** None known.
- 10.6 Hazardous decomposition products No hazardous decomposition products known

## **11. TOXICOLOGICAL INFORMATION**

- · 11.1 Information on toxicological effects
- Acute toxicity: LD<sub>50</sub> (rats, oral) > 10,000 mg/kg Inhalative LC<sub>50</sub> /4 hrs (Rat): > 6.8 mg/l
- Irritation/corrosion:
   Titanium dioxide is not irritating
- Sensitation: No sensitation known

 Chronic Toxicity: Non genotoxic.

· Further information:

Health injuries are not known under normal use. Tumours produced in rats on inhalation of very high concentrations of titanium dioxide are believed to be the result of prolonged "lung overload" and are not considered relevant to man.

## **12. ECOLOGICAL INFORMATION**

• **12.1 Toxicity** Aquatic toxicity:

Fish LC<sub>o</sub> (Leuciscus idus, 48h): > 1000 mg/l

- **12.2 Persistence and degradability** Methods for the determination of biodegradability are not applicable to inorganic substances.
- **12.3 Bioaccumulative potential** The product is practically insoluble in water and not biodegradable.
- 12.4 Mobility in soil No data
- · 12.5 Results of PBT and vPvB assessment

According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances. Titanium Dioxide is an inorganic substance, thus a PBT and vPvB assessment is not required.

· 12.6 Other adverse effects

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## **13. DISPOSAL CONSIDERATIONS**

#### · 13.1 Waste treatment methods

Product:	No hazardous waste according to European Directive 2000/5322/EC. Place in an appropriate disposal facility in
	compliance with local and national regulations.
Contaminated packaging:	Containers that cannot be cleaned must be treated as waste and disposed of in an approved industrial incineration facility. The empty and clean containers may be reused in conformity with regulations.
Cleanser:	water

#### **14. TRANSPORT INFORMATION**

- · 14.1 UN number
- · 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- -
- 14.4 Packing group
- · 14.5 Environmental hazards
- **14.6 Special precautions for user** The product is not classified as a hazardous material according to the ADR/RID, IMDG, IATA on the transport of dangerous or hazardous goods.
- · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## **15. REGULATORY INFORMATION**

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

Inhalation of TiO2 dust: In February 2006 IARC concluded, "There is inadequate evidence in humans for the carcinogenicity of titanium dioxide." Based on rat inhalation studies IARC concluded that there is, "sufficient evidence in experimental animals for the carcinogenicity of titanium dioxide," IARC's overall evaluation was that, "Titanium dioxide is possibly carcinogenic to humans (Group 2B)".

This conclusion was based on IARC's guidelines which require such a classification if two or more independent studies in one species carried out of different times or in different laboratories or under different protocols show evidence of tumours .

#### National Regulations

#### · 15.2 Chemical safety assessment

The substance has undergone a safety assessment.

## **16. OTHER INFORMATION**

- Changes against last version
   Adaption to directive 453/2010/EC
- Hazard information which is referred to in section 2 or 3 According to Regulation (EC) No 1272/2008:

According to Directive (EC) 67/548/EWG:

(2011-TI-001-EN)

The data given here are based on current knowledge and experience. The purpose of this Material Safety Data Sheet is to describe the product in terms of its safety requirements. The data do not signify any warranty with regard to the product's properties.