

Material Safety Data Sheet

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

HOMBITAN Anatase CPF Series

Print date: 07.11.2011

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

1.1 Product identifier

Product Code: HOMBITAN Anatase CPF Series
Types: AFDC, AFDC 200, AFDC 300, AC 360, FF-Pharma, FG

REACH Registration No.: 01-2119489379-17-0005 (GERMANY)
01-2119489379-17-0006 (FINLAND)

- 1.2 Relevant identified uses of the substance or mixture and uses advised against
White pigment for cosmetics, food and pharmaceutical applications

1.3 Details of the supplier of the safety data sheet

Manufacturer / supplier: US Inquiry Office:
Sachtleben LLC
140 Grand Street, Suit 400
White Plains NY 10601, USA
Phone: +1-914-539-4080
Fax: +1-914-539-6560
Mail: Paul.Frazier@sachtleben.com

Manufacturing Sites:

► Sachtleben Pigments Oy
Titaanitie, 28840 Pori, Finland
Phone: +358 10 430 1000

► Sachtleben Chemie GmbH
47198 Duisburg, Germany

Phone: +49 2066 22-0
Fax: +49 2066 22-2000
Mail: info@sachtleben.de
Product Safety: w.gruener@sachtleben.de

- 1.4 Emergency telephone number
+49 30 30686 790 Giftnotruf Berlin (German/English)
+1 800 255 3924 CHEMTEL (U S A)
+358 9 471 977 or +358 9 4711 Poison Information Center (Finland)

2. POSSIBLE HAZARDS

2.1 Classification of the substance or mixture

May cause eye, skin and respiratory tract irritation. May be harmful if inhaled.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

HMIS Ratings: Health 1 - Flammability: 0 - Reactivity: 0

Routes of exposure Inhalation. Eye contact. Skin contact. Inhalation.
 Eyes Dust may cause: mechanical irritation.
 Skin 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.
 Inhalation May cause respiratory tract irritation.
 Ingestion May cause discomfort if swallowed.
 Target organs Eyes. Skin. Respiratory system
 Chronic effects Dusts or powder may irritate the respiratory tract, skin and eyes. Frequent inhalation of fume/dust over a long period of time may increase the risk of developing lung diseases although epidemiological studies among titanium dioxide workers could not demonstrate this.
 Signs and symptoms Upper respiratory tract irritation. Coughing. Irritation of eyes and mucous membranes. Skin irritation.

• **2.2. Label elements**

USA: Label has to comply with OSHA Hazard Communication Standard ((29 CFR 1910.1200).
 CANADA: Label has to state D2A and corresponding WHMIS symbol.

• **2.3 Other hazards**

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3. COMPOSITION/INFORMATION ON INGREDIENTS

• **3.1 Chemical Characterisation (Substance)**

Classification according to DSD -DPD / CLP

Substance identification	ID Numbers		%	Classification	Hazard Statemernts (R/H)
Titanium Dioxide	CAS. EINECS INDEX: REACH Color Index	13463-67-7 236-675-5 - 01-2119489379-17-0005 (DE) 01-2119489379-17-0006 (FI) C.I. 77891 Pigment white 6	99 - 100	-	-

• **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**

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• **4.3 Indication of any immediate medical attention and special treatment needed**

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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, not flammable and incombustible.
- **5.3 Advice for firefighters**
NFPA Ratings: Health 1 - Flammability: 0 - Reactivity: 0

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 flammable
Storage conditions/ packing material: Keep in a dry place
Incompatible products: No restrictions
- **7.3 Specific end use(s)**

8. Exposure controls/personal protection

- **8.1 Control parameters**

Substance CAS No.	Titanium dioxide 13463-67-7		Dust, inhalable		Dust, respirable	
	Limit value - Eight hours mg/m ³	Limit value - Short term mg/m ³	Limit value - Eight hours mg/m ³	Limit value - Short term mg/m ³	Limit value - Eight hours mg/m ³	Limit value - Short term mg/m ³
Austria			10	20	5	10
Belgium	10		10		3	
Canada - Québec	10					
Denmark	6 total dust	12 total dust	10	20		
European Union						
France	11 inhalable aerosol		10		5 respirable aerosol	
Germany (AGS)			10	20	3	6
Germany (DFG)			4		1,5	
Hungary			10		6	

Italy				
Japan				
Poland	10	30		
Spain	10 inhalable aerosol		10	3
Sweden	5 inhalable aerosol		10	5
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			*STV 15 minutes average value
France		*Bold type: Restrictive statutory limit values	*Bold type: Restrictive statutory limit values
Germany(AGS)		*15 minutes average value, insoluble particulates	*15 minutes average value, insoluble particulates
Germany(DFG)		*long term exposure level, insoluble particulates	*insoluble particulates

(Source: GESTIS - Internationale Grenzwerte für chemische Substanzen - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA))

8.2 Exposure controls

Engineering measures: Maintain exposures below applicable exposure limits:

Personal Protection Equipment

Industrial hygiene measures: Keep in clean conditions

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. or equivalent approved by NIOSH.

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:	> 1,800 °C
Boiling point or range:	not applicable
Flash point:	not flammable
Ignition temperature:	not flammable
Auto-ignition temperature:	not flammable
Oxidizing properties:	none
Explosive properties:	no danger of explosion.
Explosivity or flammability limit in air:	-
Vapour pressure:	not applicable
Density:	approx. 3,9 g/ml

Solubility:	< 0,01 g/l
pH-value:	approx. 8
Partition coefficient:	not applicable
Viscosity:	not applicable

- **9.2 Other information**

Bulk density: approx. 430 g/l

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:**

LD₅₀ (rats, oral) > 10,000 mg/kg

Inhalative LC₅₀ /4 hrs (Rat): > 6.8 mg/l

- **Irritation/corrosion:**

Titanium dioxide is not irritating

- **Sensitation:**

No sensitisation known

- **Chronic Toxicity:**

- **Carcinogenicity:**

Suspecting that long term inhalation of TiO₂ dust may be a reason of causing cancer, IARC has classified TiO₂ in 2006 as "possibly carcinogenic" to humans (Group 2B). Unless tumours produced in rats on inhalation of very high concentrations of titanium dioxide are believed to be the result of prolonged "lung overload" and probably not relevant to man..Two major epidemiology studies among titanium dioxide workers in the US and in EUROPE could not demonstrate an elevated lung cancer risk.

Non genotoxic.

- **Further information:**

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12. Ecological information

- **12.1 Toxicity**

Aquatic toxicity: Fish LC₀ (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 91/689/EEC and RCRA. 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**
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- **14.2 UN proper shipping name**
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- **14.3 Transport hazard class(es)**
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- **14.4 Packing group**
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- **14.5 Environmental hazards**
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- **14.6 Special precautions for user**
The product is not classified as a hazardous material according to the DOT, 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**
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15. REGULATORY INFORMATION

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
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- **National Regulations**

OSHA: This product is considered hazardous under the OSHA Hazard Communication Standard ((29 CFR 1910.1200).	
SARA Title III Sec. 302/303 (Extremely Hazardous Substances):	Not listed
SARA Title III Sec. 311/312 (40 CFR 370)	Hazard Category: None
SARA Title III Sec. 313 (Toxic Chemicals Emissions Reporting):	Not listed

CERCLA Hazardous Substance (40 CFR Part 302):	Not listed
California Proposition 65:	WARNING! This product contains a chemical known to the State of California to cause cancer: Titanium Dioxide (airborne, unbound particles of respirable size) The listing does not cover Titanium Dioxide when it remains bound within a product matrix.
Canada (WHMIS)	This product has been classified as D2A controlled product under WHMIS. The listing does not cover titanium dioxide when it is inextricably bound within a product.
EINECS: (European Inventory of Existing Commercial Chemical Substances)	236-675-5
ELINCS: (European List of Notified Chemical Substances)	not listed
TSCA: (Toxic Substances Control Act (EPA-Inventory)	13463-67-7
AICS: (Australien Inventory of Chemical Substances)	13463-67-7
DSL: (Canadien Domestic Substances List)	13463-67-7
NDSL: (Canadien Non-Domestic Substances List)	not listed
KECI: (Korean Existing Chemicals Inventory)	KE-33900
PICCS: (Philippinian Inventory of Commercial Chemical Substances)	522 5600
BAGT: (Giftliste des BA für Abfall und Gesundheitswesen der Schweiz)	G 2950
METI: (Ministry of Economy, Trade and Industry - Japan)	1-558
SEPA: (State Environmental Protection Administration - China)	13463-67-7

· **15.2 Chemical safety assessment**

The substance has undergone a safety assessment.

16. OTHER INFORMATION

· **Changes against last version**

Listing in California Proposition 65

· **Hazard information which is referred to in section 2 or 3**

According to Regulation (EC) No 1907/2006:

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

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(2011-TI-001-US)

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.