

## Safety Data Sheet

### TITANIUM DIOXIDE

Version 1

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

### 1.1 Product Identifier

Mixture identification:

Trade name: TITANIUM DIOXIDE /6004 Titandioxid

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

Recommended use: Manufacture of food products Uses advised against: Not available

### 1.3 Details of the supplier of the safety data sheet

Company/ undertaking identification: Naturkosmetikkompaniet AB  
Ullevi Enestorp 3 59491 Gamleby

Email: info@naturkosmetikkompaniet.se

Tel.: 0493-53999 Fax: 0493-12630

### 1.4 Emergency telephone number

112

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

0 The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2 Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

### Ingredient(s) with unknown acute toxicity:

None

### Special provisions according to Annex XVII of REACH and subsequent amendments:

None

### 2.3 Other hazards

No PBT Ingredients are present

Other Hazards: No other hazards

Dust may be irritating to skin, Dust may be irritating to eyes, Dust may be irritating to lungs and cause sneezing, Dust may be irritating to respiratory track,

Skin contact may cause irritation due to mechanical action on sensitive skin, Eye contact may cause irritation due to mechanical action and secretion of tears,

Inhalation may cause coughing, sneezing and respiratory problems, Ingestion may cause stomach ache, vomiting and diarrhea, May form combustible dust concentrations in the air.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not Available

### 3.2 Mixtures

Mixture identification: TITANIUM DIOXIDE

### Hazardous components within the meaning of the CLP regulation and related classification:

None

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

In case of skin contact:

Wash with plenty of water and disinfectant/non-abrasive soap.

In case of eye contact:

Wash immediately with water.

In case of ingestion:

Do not induce vomiting, get medical attention showing the MSDS and label hazardous.

In case of inhalation:

Remove casualty to fresh air and keep warm and at rest.

### 4.2 Most important symptoms and effects, both acute and delayed

Not Available

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Water, CO<sub>2</sub>, foam, chemical powders, according to the materials involved in the fire.

In case of fire, use foam, dry chemical, CO<sub>2</sub>.

Unsuitable extinguishing media:

None in particular.

### 5.2 Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

### 5.3 Advice for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

### 6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose of it following local legislation.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities if required.

Suitable material for taking up: dry and inert absorbing material (e.g. vermiculite, sand, earth).

### 6.3 Methods and material for containment and cleaning up

Suitable material for taking up: dry and inert absorbing material (e.g. vermiculite, sand, earth). Wash with plenty of water.

### 6.4 Reference to other sections

See also section 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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

Store in a tightly closed container in a cool, dry, well-ventilated area.

Store in a tightly closed container in a cool, dry, well-ventilated area.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

### 7.3 Specific end use(s)

Recommendation(s)

None in particular.

Industrial sector specific solutions:

None in particular.



## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Community Occupational Exposure Limits (OEL)

OEL Type	Country	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Notes
ACGIH		10				A4 - Not Classifiable as a Human Carcinogen; lower respiratory tract irritation;
NATIONAL	France	10				
NATIONAL	Spain	10				
NATIONAL	Portugal	10				
NATIONAL	Belgium	10				
NATIONAL	Poland	10.0				total dust
NATIONAL	Russian Federation	10				
NATIONAL	United Kingdom	10		30		
NATIONAL	United Kingdom	10		12		
NATIONAL	United Kingdom	4		30		
NATIONAL	Germany	3.000		6.000		alveolate fraction
NATIONAL	Germany	10.000		20.000		inhalable fraction
EU		10.000				
NATIONAL	Austria	5.000				respirable dust
NATIONAL	Austria			10.000		2 times per shift, 60 minute(s). Form: respirable dust.
NATIONAL	Bulgaria	10.000				Respirable dust
NATIONAL	Croatia			4.000		Respirable Dust
NATIONAL	Croatia			10.000		Total Dust
NATIONAL	Denmark	6.000				
NATIONAL	Estonia	5.000				
NATIONAL	Finland	10.000				
NATIONAL	Greece	10.000				inhalable fraction
NATIONAL	Greece	5.000				respirable fraction
NATIONAL	Hungary	10.000				Egyéb.Inert porok (Inert Dust) Totalis
NATIONAL	Hungary	6.000				Egyéb.Inert porok (Inert Dust) Respirabilis
NATIONAL	Ireland	10.000				inhalable dust
NATIONAL	Ireland	4.000				respirable dust
NATIONAL	Italy	10.000				
NATIONAL	Latvia	10.000				
NATIONAL	Lithuania	5.000				
NATIONAL	Netherlands	10.000				inhaleerbaar stof
NATIONAL	Netherlands	5.000				respirabel stof
NATIONAL	Norway	5.000				
NATIONAL	Romania	10.000		15.000		

NATIONAL	Slovakia (Slovak Republic)	1.500
NATIONAL	Sweden	5.000
NATIONAL	Switzerland	3.000

respirable aerosols



total dust

respirable dust

### Predicted No Effect Concentration (PNEC) values

PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
1.000 mg/l	Fresh Water		
1000.000 mg/kg	Freshwater sediments		
0.127 mg/l	Marine water		
100.000 mg/kg	Marine water sediments		
100.000 mg/kg	Soil (agricultural)		
100.000 mg/kg	Microorganisms in sewage treatments		
1667.000 mg/kg	Food chain		

### Derived No Effect Level (DNEL) values

Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
10.000	10.000	mg/m3	inhalative	Long Term, local effects	
		700.000	mg/m3	Oral	Long Term, systemic effects

### 8.2 Exposure controls

Eye/face protection:

Eye glasses with side protection.

Skin protection:

Chemical protection clothing.

Hand protection:

One-time gloves.

Respiratory protection:

Mask with filter "P", white colour

Hygienic and Technical measures

Not Available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State Solid

Appearance: Powder, White

Odour: Odorless

Odour threshold: Not Available

pH: Not Available

Melting point/ range: 1560 °C (2840 °F)

Boiling point/ range: 3000 °C (5432 °F)

Flash point: Not Applicable

Evaporation rate: Not Available

Upper/lower flammability or explosive limits: Not Available

Vapour density: Not Available

Vapour pressure (20°C): Not Available

Density (20°C): Not Available

Water solubility: Insoluble

Lipid solubility: Not Available

Partition coefficient (n-octanol/water): Not Available

Auto-ignition temperature: Not Available

Decomposition temperature: Not Available

Viscosity (20°C): Not Available

Explosive properties: Not Available

Oxidising properties: Not Available

Flammability (Solid, Gas): Not Available  
Volatile Organic compounds - VOCs = Not Available



## 9.2 Other information

Substance group relevant properties: Not Available  
Miscibility: Not Available  
Conductivity: Not Available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Data not Available.

### 10.3 Possibility of hazardous reactions

Burning produces carbon monoxide and/or carbon dioxide.

### 10.4 Conditions to avoid

Prevent formation of dust, lack of ventilation.

### 10.5 Incompatible materials

Avoid strong oxidizing agents, peroxides, acids, alkali metals.

### 10.6 Hazardous decomposition products

Burning produces carbon monoxide and/or carbon dioxide.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Toxicological information on main components of the mixture:

TITANIUM DIOXIDE CI 77891 a) acute toxicity LD50 Oral Rat > 5000.00000mg/kg  
LC50 Inhalation Rat > 6.82000mg/l 4h

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

## SECTION 12: Ecological information

### 12.1 Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-toxicity:

#### List of Eco-Toxicological properties of the components

Component	Ecotox Data
TITANIUM DIOXIDE CI 77891	LC50 a) Aquatic acute toxicity Fish Oncorhynchus mykiss> 100.00000mg/l 96h OECD 203 LC50 a) Aquatic acute toxicity Fish Cyprinodon variegatus> 10000.00000mg/l 96h OECD 203 LC50 a) Aquatic acute toxicity Daphnia Daphnia magna> 100.00000mg/l 48h OECD 202

### 12.2 Persistence and degradability

Not Available

### 12.3 Bioaccumulative potential

Not Available

### 12.4 Mobility in soil

Not Available



## 12.5 Results of PBT and vPvB assessment

No PBT Ingredients are present

## 12.6 Other adverse effects

Not Available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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## SECTION 14: Transport information

### 14.1 UN number

N/A

### 14.2 UN proper shipping name

ADR-Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

### 14.3 Transport hazard class(es)

ADR-Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

### 14.4 Packing Group

ADR-Packing Group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

### 14.5 Environmental hazards

Toxic Ingredients Qty: 0.00

High Toxicity Ingredients Qty: 0.00

Marine pollutant: No

Environmental Pollutant: No

### 14.6 Special Precautions for User

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR-Upper number: N/A

ADR-Special Provisions: N/A

ADR-Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Sub Risk: N/A

IATA-Erg: N/A

IATA-Special Provisioning: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A

IMDG-Sub Risk: N/A

IMDG-Special Provisioning: N/A

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: N/A

IMDG-MFAG: N/A

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not Available

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## SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 453/2010 (Annex II)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None

Restrictions related to the substances contained: None

Provisions related to directive EU 2012/18 (Seveso III):

Not Available

German Water Hazard Class.

NWG: Not hazardous for water

SVHC Substances:

No Data Available

## 15.2 Chemical Safety Assessment

Chemical Safety Assessment: No

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## SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

CLP: Classification, Labeling, Packaging

EINECS: European Inventory of Existing Commercial Chemical Substances

INCI: International Nomenclature of Cosmetic Ingredients

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GefStoffVO: Ordinance on Hazardous Substances, Germany

LC50: Lethal concentration, for 50 percent of test population

LD50: Lethal dose, for 50 percent of test population

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

TLV: Threshold Limiting Value

TWATLV: Threshold Limiting Value for the Time Weighted Average 8 hour day.(ACGIH Standard)

STEL: Short Term Exposure limit

STOT: Specific Target Organ Toxicity

WGK: German Water Hazard Class

KSt: Explosion coefficient