



Safety Data Sheet

Section 1: Identification

Trade Name: Titanium Dioxide

Company: Soapgoods Inc

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CAS: 13463-67-7

EC number: 236-675-5

Section 2: Hazard(s) Identification

2.1 Classification of the substance or mixture

Classification according to

Regulation (EC) No 1272/2008

The substance is not classified according to the CLP regulation.

Classification according to

Directive 67/548/EEC or

Directive 1999/45/EC

not applicable

Information concerning

particular hazards for human

and environment:

Dust load

2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008

not applicable

Hazard pictograms:

not applicable

Signal word:

not applicable

Hazard statements:

not applicable

Section 3: Composition/Information on Ingredients

3.1 Chemical characterization: Substances

CAS No. Designation: 13463-67-7 titanium dioxide

EC number: 236-675-5

Additional information: Standard EN ISO 591-1

Section 4: First-Aid Measures

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of symptoms.

After skin contact: Wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water.

In case of persistent symptoms consult physician.

After swallowing: No special measures required.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Section 5: Fire-Fighting Measures

5.1 Extinguishing media Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

The product is not inflammable.

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

Protective equipment: Use protective measures that suit the hazard conditions

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Not required.

6.2 Environmental precautions: No special measures required.

6.3 Methods and material for containment and cleaning up: Collect mechanically.

6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal

Section 7: Handling and Storage

Handling:

7.1 Precautions for safe handling

Provide vacuum dust collection if dust is formed.

Information about protection against explosions and fires:

The product is not inflammable.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers:

No special requirements.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Store under dry conditions.

7.3 Specific end use(s)

There are no further specific end uses than those named in section 1.2

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

13463-67-7 titanium dioxide

WEL Long-term value: 10* 4** mg/m³

*total inhalable **respirable

DNELs

Worker

13463-67-7 titanium dioxide

Inhalative (Worker): 10 mg/m³ (Local long-term effects)

Professional user

13463-67-7 titanium dioxide

Inhalative (Professional user): 10 mg/m³ (Local long-term effects)

Consumer

13463-67-7 titanium dioxide

Oral (Consumer): 700 mg/kg/d (Systemic long-term effects)

PNECs

Water

13463-67-7 titanium dioxide

PNEC 1 mg/l (marine waters)

0.127 mg/l (freshwater)

0.61 mg/l (intermittend release)

Sewage treatment plants (STP)

13463-67-7 titanium dioxide

PNEC 100 mg/l (STP)

Sediment

13463-67-7 titanium dioxide

PNEC 100 mg/kg dw (Sediment (marine waters))

1000 mg/kg dw (Sediment (freshwater))

Soil

13463-67-7 titanium dioxide

PNEC 100 mg/kg dw (soil)

Oral (food chain)

13463-67-7 titanium dioxide

Oral PNEC 1667 mg/kg (oral (food chain))

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic

measures:

The usual precautionary measures should be adhered to in handling the chemicals.

Titanium dioxide pigments are not irritant but as with all fine powders can absorb moisture and natural oil from the surface of the skin during prolonged exposure. Prolonged exposure should be avoided by wearing suitable protective gloves and clothing.

Breathing equipment:

Use breathing protection with high concentrations.

EN 149: FFP2

Protection of hands:

Requirements according to EN 420

Check protective gloves prior to each use for their proper condition.

Preventive skin protection by use of skin-protecting agents is recommended.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. If the product is used in a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Eye protection:

Safety glasses

Body protection:

Protective work clothing.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Powder
Colour:	White
Smell:	Odourless
Odour threshold:	Not relevant
pH-value (100 g/l) at 20 °C:	7

Melting point/Melting range:	>1800 °C
Boiling point/Boiling range:	Not relevant
Flash point:	Not applicable
Flammability (solid, gaseous):	Product is not inflammable.
Ignition temperature:	Not applicable
Danger of explosion:	Product is not explosive.
Density:	20 °C Anatase 3,9 g/cm ³ Rutile 4,2 g/cm ³
Apparent density at 20 °C:	500-900 kg/m ³
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with Water:	Insoluble
Partition coefficient (n-octanol/water):	Not applicable
Viscosity:	
dynamic:	Not applicable.

9.2 Other information No further relevant information available

Section 10: Stability and Reactivity

10.1 Reactivity	The substance is stable under normal use conditions.
10.2 Chemical stability	Thermal decomposition /Conditions to be avoided: No decomposition under normal use conditions.
10.3 Possibility of hazardous reactions	No dangerous reactions known
10.4 Conditions to avoid	No further data; see item 7.
10.5 Incompatible materials:	No further data; see item 7.
10.6 Hazardous decomposition products:	No dangerous decomposition products known

Section 11: Toxicological Information

Acute toxicity

LD/LC50 values that are relevant for classification:

13463-67-7 titanium dioxide

Oral LD50 >5000 mg/kg (rat) (OECD 425)

Dermal LD50 >5000 mg/kg (rabbit)

Inhalative LC50/4h >6.8 mg/l (rat)

Primary irritant effect:

Skin corrosion/irritation

OECD 404:

No irritant effect

Serious eye damage/irritation OECD 405: No irritant effect

Like any foreign body, particles (dust) can cause mechanical irritation.

Respiratory or skin sensitisation

OECD 406, OECD 429

No sensitizing effects

Subacute to chronic toxicity:

13463-67-7 titanium dioxide

Oral NOAEL 3500 mg/kg/d (rat) (90 d)

Dermal NOAEL (-)

no relevant data available

Inhalative NOAEC 10 mg/m³ (rat) (90 d)

Toxicokinetics, metabolism and distribution

No substantial accumulation of titanium was observed in tissues following oral administration of titanium dioxide.

Dermal absorption can be considered negligible, as titanium dioxide has been shown not to penetrate human skin to any appreciable degree

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

There are no indications of CMR effects in humans.

Carcinogenicity

There are no indications of CMR effects in humans.

Reproductive toxicity

There are no indications of CMR effects in humans.

STOT-single exposure

No specific target organ toxicity according to the criteria defined in Regulation (EC) No. 1272/2008.

STOT-repeated exposure	No specific target organ toxicity according to the criteria defined in Regulation (EC) No. 1272/2008.
Aspiration hazard	Not relevant

Section 12: Ecological Information

12.1 Toxicity

Toxicity to fish	<p>Titanium dioxide</p> <p>Freshwater fish:</p> <p>Pimephales promelas LC50 (96 h): > 1000 mg/l (static, EPA-540/9-85-006, Acute Toxicity Test for Freshwater Fish)</p> <p>Oncorhynchus mykiss LC50 (96 h): > 100 mg/l (static, equivalent or similar to OECD 203)</p>
Marine water fish:	Cyprinodon variegatus LC50 (96 h): > 10000 mg/l (semi-static, OECD 203)
Toxicity to Daphnia and other aquatic invertebrates	<p>Titanium dioxide</p> <p>Freshwater:</p> <p>Daphnia magna LC50 (48 h): > 100 mg/l (static, equivalent or similar to OECD 202)</p>
Marine water:	Acartia tonsa LC50 (48 h): > 10000 mg/l (ISO 14669 (1999); ISO 5667-16 (1998))
Toxicity to algae and aquatic plants	<p>Titanium dioxide</p> <p>Freshwater:</p> <p>Pseudokirchnerella subcapitata EC50 (72 h): 16 mg/l (static, EPA-600-9/78-018; ASTM Annual Book of Standards E1218-90, Vol 11.04))</p>
Marine water:	Skeletonema costatum EC50 (72 h): > 10000 mg/l (ISO 10253)
	<p>Toxicity to micro-organisms</p> <p>Titanium dioxide</p> <p>Freshwater: Hyalella azteca NOEC(28 d):²⁴₁₂</p> <p>100000 mg/kg sediment dw (semi-static,ASTM 1706)</p>
Marine water:	<p>Corophium volutator NOEC (10 d): ²⁴₁₂</p> <p>14989 mg/kg sediment dw (semi-static,OSPARCOM guidelines (1995))</p>

12.2 Persistence and degradability	Not relevant for inorganic substances.
12.3 Bioaccumulative potential	Does not accumulate in organisms
12.4 Mobility in soil	The substance is immobile in soil.
12.5 Results of PBT and vPvB assessment	
PBT:	Not applicable.
VpvB:	Not applicable
12.6 Other adverse effects	No further relevant information available

Section 13: Disposal Considerations

13.1 Waste treatment methods	
European waste catalogue	Waste code number according to origin of waste
Uncleaned packagings:	
Recommendation:	Disposal according to official regulations Packaging can be reused or recycled after cleaning

Section 14: Transport Information

14.1 UN-Number	
ADR, ADN, IMDG, IATA	not applicable
14.2 UN proper shipping name	
ADR, ADN, IMDG, IATA	not applicable
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	not applicable
14.4 Packing group	
ADR, IMDG, IATA	not applicable
14.5 Environmental hazards	Not an environmentally hazardous substance.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not relevant

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
National regulations:	
Water hazard class:	not hazardous for water

15.2 Chemical Safety Assessment

Substances of very high concern (SVHC) according to REACH, Article 57 The product is not listed as SVHC, it does not contain any substances of very high concern.

Chemical safety assessment: A Chemical Safety Assessment has been carried out.

Section 16: Other Information

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