

Titanium Dioxide


Safety Data Sheet according to Federal Register / Vol. 77, No. 58
/ March 26, 2012 / Rules and Regulation

Revision Date: 04-20-2015
Supersedes: 03-21-2014

1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Titanium Dioxide	Distributor:	MakingCosmetics.com Inc.
Synonyms:	Titanic anhydride, anatase	Address:	10800 231 st Way NE Redmond, WA 98053 (USA)
INCI Name:	Titanium dioxide	Phone / Fax:	425-292-9502 / 425-292-9601
CAS Number:	13463-67-7	Web:	www.makingcosmetics.com
Formula:	TiO ₂	Emergency Telephone Number:	1-800-424-9300
Product Form:	Powder		(Chemtrec)
Product Use:	Cosmetic use		

2 HAZARDS IDENTIFICATION

GHS Classification: Skin irritation (category 3), carcinogenicity (category 2)
GHS Signal Word: DANGER
GHS Hazard Pictograms: 

GHS Hazard Statements:
H319: Causes serious eye irritation
H335: May cause respiratory irritation
H372: Causes damage to organs through prolonged or repeated exposure

GHS Precautionary Statements:
P281: Use personal protective equipment as required

Potential Health Hazards:
Eyes: Causes eye irritation.
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Ingestion: May be harmful if swallowed.

NFPA Ratings (704):

Health	1
Flammability	0
Reactivity	0
Specific Hazard	n/a

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Titanium Dioxide	13463-67-7	100%	79.87 g/mol

4 FIRST AID MEASURES

Eyes: In case of eye contact, rinse with plenty of water and seek medical attention if necessary

Inhalation: Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

Skin: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary

Ingestion: Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

5 FIRE-FIGHTING MEASURES

<p>Suitable (and unsuitable) extinguishing media:</p> <p>Special protective equipment & precautions for firefighters:</p> <p>Specific hazards arising from the chemical:</p>	<p>Product is not flammable. Use appropriate media for adjacent fire. Cool unopened containers with water.</p> <p>Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.</p> <p>Emits toxic fumes (titanium oxides) under fire conditions. See also Stability and Reactivity section.</p>
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6 ACCIDENTAL RELEASE MEASURES

<p>Personal precautions, protective equipment & emergency procedures:</p> <p>Environmental precautions:</p> <p>Methods and material for containment and cleaning up:</p>	<p>See section 8 for recommendations on the use of personal protective equipment.</p> <p>Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements</p> <p>Pick up and arrange disposal without creating dust. Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations</p>
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7 HANDLING & STORAGE

<p>Precautions for safe handling:</p> <p>Conditions for safe storage, incl. any incompatibilities:</p>	<p>See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.</p> <p>Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).</p>
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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Titanium Dioxide	10 mg/m ³	TLV	ACGIH
	15 mg/m ³ (total dust)	PEL	OSHA

TWA: Time Weighted Average over 8 hours of work.
 TLV: Threshold Limit Value over 8 hours of work.
 REL: Recommended Exposure Limit
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
 IDLH: Immediately Dangerous to Life or Health
 WEEL: Workplace Environmental Exposure Levels
 CEIL: Ceiling

Personal Protection:

Eyes:	Wear chemical safety glasses or goggles.
Inhalation:	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin:	Wear nitrile or rubber gloves, apron or lab coat.
Other:	Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance, Physical State:	Powdered solid	Vapor Pressure:	Not applicable
Odor:	Odorless	Vapor Density:	Not applicable
Taste:	Tasteless	Evaporation Rate:	Not applicable
Color:	White	Flammability:	Not flammable
Molecular Weight:	79.87 g/mol	Upper/lower Explosive Limit:	Not explosive
pH (1% sol. in water)	Not applicable	Solubility:	

Boiling Point:	2750°C (4982°F)	Insoluble in cold water, hydrochloric acid, nitric acid, diluted sulfuric acid, organic solvents. Soluble in hot sulfuric acid, hydrofluoric acid, alkali
Melting Point:	1855°C (3371°F)	
Flash Point:	Not flammable	
Specific Gravity:	4.26 (water = 1)	

10 STABILITY AND REACTIVITY

Reactivity:	Product is stable
Chemical Stability:	Product is stable
Possibility of Hazardous Reactions:	Will not occur
Conditions to Avoid:	Not available
Incompatible Materials:	Reactive with acids, slightly reactive with metals
Hazardous Decomposition Products:	Titanium oxides
Special Remarks:	Reaction of titanium dioxide and lithium occurs at around 200°C with a flash of light. The temperature can reach 900°C. A violent or incandescent reaction with metals (aluminum, calcium, magnesium, potassium, sodium, zinc, and lithium) may occur at high temperatures. Polymerization and corrosion will not occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not classified
Skin:	LD50 Dermal (rabbit) > 10,000 mg/kg
Eyes:	Causes irritation, redness, watering eyes
Respiratory:	Causes irritation, coughing, wheezing
Ingestion:	LD50 Oral (rat) > 10,000 mg/kg, causes irritation, nausea, vomiting, diarrhea
Carcinogenicity:	IARC: 3-Group 3: Not classifiable for human (Titanium dioxide) ACGIH: A4: Not classifiable for human or animal (Titanium dioxide) NTP: No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP OSHA: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen
Teratogenicity:	Not available
Germ Cell Mutagenicity:	Mutagenetic for somatic cells
Embryotoxicity:	Not available
Specific Target Organ Toxicity:	May cause damage to lungs and upper respiratory tract
Reproductive Toxicity:	Not available
Respiratory/Skin Sensitization:	Not available

12 ECOLOGICAL INFORMATION

Ecotoxicity	
Aquatic Vertebrate:	LC50 - other fish - > 1,000 mg/l - 96 h
Aquatic Invertebrate:	ECO -Daphnia magna (Water flea) -1,000 mg/l - 48 h
Terrestrial:	Not available
Persistence and Degradability:	Not available
Bioaccumulative Potential:	Not available
Mobility in Soil:	Not available
PBT and vPvB Assessment:	Not available
Other Adverse Effects:	Not available

13 DISPOSAL CONSIDERATIONS

- Waste Residues:** Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
- Product Containers:** Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

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| DOT (Dept. of Transportation, USA): | Not dangerous goods |
| TDG (Transportation of Dangerous Goods, Canada): | Not dangerous goods |
| IMDG (International Maritime Dangerous Goods): | Not dangerous goods |
| IATA (International Air Transport Association): | Not dangerous goods |
| ICAO (International Civil Aviation Organization): | Not dangerous goods |

15 REGULATORY INFORMATION

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| TSCA Inventory Status: | All ingredients are listed on the TSCA inventory |
| DSCL (EEC): | All ingredients are listed on the DSCL inventory |
| California Proposition 65: | Not listed |
| SARA 302: | Not listed |
| SARA 304: | Not listed |
| SARA 311: | Listed: Titanium Dioxide |
| SARA 312: | Listed: Titanium Dioxide |
| SARA 313: | Not listed |

16 OTHER INFORMATION

- Revision Date:** 04-20-2015
- Compliance:** This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
- Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.