

Titanium Dioxide


Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
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1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Titanium Dioxide	Distributor:	MakingCosmetics Inc.
Synonyms:	Titanic anhydride, anatase	Address:	10800 231 st Way NE Redmond, WA 98053 (USA)
INCI Name:	Titanium dioxide (CI 77891)	Phone / Fax:	425-292-9502 / 425-292-9601
CAS Number:	13463-67-7	Web:	www.makingcosmetics.com
Formula:	No data available		
Product Form:	Solid		
Product Use:	Cosmetic use	Emergency Telephone Number:	1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Not classified.
GHS Labeling: **Warning**
GHS Hazard Pictograms: 

GHS Hazard Statements: Health Hazards: Carcinogenicity (category 2): Suspected of causing cancer.
GHS Precautionary Statements: Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/eye protection/ face protection
 Response: If exposed or concerned, get medical attention.
 Storage: Store locked up.
 Disposal: Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

Potential Health Hazards: Eyes: May cause temporary eye irritation
 Inhalation: No adverse effects due to inhalation are expected.
 Skin: No adverse effects due to skin contact are expected.
 Ingestion: Expected to be a low ingestion hazard.
 Other: Suspected of causing cancer.

NFPA Ratings (704):

Health	1	Slight
Flammability	0	Minimal
Reactivity	0	Minimal
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 (CI 77891)	13463-67-7	100%	Not Available

4 FIRST AID MEASURES

Eyes: Direct contact with eyes may cause temporary irritation. Wash off with soap and water. Seek medical attention if necessary.

Inhalation: Move to fresh air. Seek medical attention if necessary.

Skin: Wash off with soap and plenty of water. Seek medical attention if necessary

Ingestion: Rinse mouth. Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Seek medical attention if symptoms develop and persist.

General Information: If exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	May be combustible at high temperature. Use appropriate media (Waterfog, foam, dry chemical powder. Carbon dioxide (CO ₂)) for adjacent fire. Do not use water jet as an extinguisher, as this will spread the fire.
Special protective equipment & precautions for firefighters:	Use standard firefighting procedures and consider the hazards of other involved materials. Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Move containers from fire area if you can do so without risk.
Flash Points:	No data available
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed. No unusual fire or explosion hazards noted. See also Stability and Reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Keep unnecessary personnel away. Keep people away from and up wind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions:	Avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak.
Methods and material for containment and cleaning up:	The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Put material in suitable, covered, labeled containers. This product is insoluble in water. Dispose of all waste and cleanup materials in accordance with regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. See section 8 for recommendations on the use of personal protective equipment.
Conditions for safe storage, incl. any incompatibilities:	Store locked up. Store in tightly closed container. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Titanium dioxide (CI 77891)	15mg/m ³ (Total Dust)	PEL	Not available
	2.5mg/m ³ (respirable finescale particles)	TWA	Not available
	0.2mg/m ³ (Respirable nanoscale particles)	TWA	Not available
	5000mg/m ³	IDLH	Not available

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:	Safety glasses with side shields should be worn.
Inhalation:	In case of insufficient ventilation, wear suitable respiratory equipment.
Body:	Wear appropriate chemical resistant gloves. Full protective clothing should be worn, including an impervious apron.
Other:	The following are recommendations for Personnel Protective Equipment (PPE). The employer/user of this product must perform a Hazard Assessment of the work place according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product. Observe any medical surveillance requirements. Always observe good personal hygiene measures, wash hands after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid	Vapor Pressure:	No data available
Odor:	Odorless	Vapor Density:	No data available
Odor Threshold:	No data available	Evaporation Rate:	No data available
Color:	White	Flammability:	No data available
Molecular Weight:	79.9g/mo	Upper/lower Explosive Limit:	No data available
pH:	7	Flash Point:	Not available
Boiling Point/Range:	>4532-<5432 °F(>2500-<3000 °C)	Specific Gravity:	0.12
Melting Point:	3349.4 °F (1843 °C)	Water Solubility:	Insoluble
Density:	1.00lbs/gal 0.12g/ml	Auto-Ignition Temperature:	No data available
Partition Coefficient: n-octanol/water:	No data available	Decomposition Temperature:	No data available
Viscosity:	No data available	Explosive Limits/Properties:	Not explosive
Oxidizing Properties:	Not oxidizing	Molecular Formula	O2-Ti

10 STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage, and transport.
Chemical Stability:	Stable under normal conditions.
Hazardous Polymerization:	No dangerous reaction known under conditions of normal use.
Conditions to Avoid:	Will not occur.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	No hazardous decomposition products are known.
Possible Hazardous Reactions:	No dangerous reaction known under conditions of normal use.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	Dermal LD50 (hamster): > 10000mg/kg Oral LD50 (rat): >10000mg/kg
Skin:	No adverse effects due to skin contact are expected
Eyes:	No adverse effects due to skin contact are expected
Respiratory:	No adverse effects due to inhalation are expected
Ingestion:	Expected to be a low ingestion hazard.
Carcinogenicity:	Suspected of causing cancer.
IARC:	2B Possibly carcinogenic to humans.
OSHA:	Not listed.
NTP:	Not listed.
Teratogenicity:	No data available
Germ Cell Mutagenicity:	Due to partial or incomplete lack of data the classification is not possible.
Embryotoxicity:	No data available
Specific Target Organ Toxicity:	Due to partial or incomplete lack of data the classification is not possible.
Reproductive Toxicity:	Due to partial or incomplete lack of data the classification is not possible.
Respiratory/Skin Sensitization:	Due to partial or incomplete lack of data the classification is not possible.
Skin Corrosion/Irritation:	Due to partial or incomplete lack of data the classification is not possible.
Skin Sensitization:	Due to partial or incomplete lack of data the classification is not possible.
Chronic Effects:	Prolonged exposure may cause chronic effects.
Aspiration Hazard:	Due to partial or incomplete lack of data the classification is not possible.

12 ECOLOGICAL INFORMATION

Ecotoxicity:	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the
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	environment.
Aquatic Vertebrate:	LC50 (Fish: Mummichog, Fundulus Heteroclitus): >1000 mg/l, 96 hours
Aquatic Invertebrate:	EC50 (Crustacea Water flea, Daphniamagna): >1000 mg/l, 48 hours
Terrestrial:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
PBT and vPvB Assessment:	No data available.
Other Adverse Effects:	No other adverse environmental effects (e.g. ozone depletion, photo chemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13 DISPOSAL CONSIDERATIONS

Waste Residues:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with all applicable local regulations.
Product Containers:	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. Follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of contents/container in accordance with all applicable local regulations.

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

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Not regulated as dangerous goods.
TDG (Transportation of Dangerous Goods, Canada):	Not data available.
IMDG (International Maritime Dangerous Goods):	Not regulated as dangerous goods.
IATA (International Air Transport Association):	Not regulated as dangerous goods.
ICAO (International Civil Aviation Organization):	No data available.

15 REGULATORY INFORMATION

TSCA Inventory Status:	Not regulated.
CERCLA Hazardous Substance List:	Not regulated.
SARA 304:	Not regulated.
OSHA:	Not regulated.
SARA 302 (Extremely hazardous substance):	Not regulated.
SARA311/312 Hazardous chemical:	Yes
SARA 313 (TRI Reporting):	Not regulated.
Classified Hazardous Categories:	Carcinogenicity
Clean Air Act (CAA) (Section 112 Hazardous Air Pollutants - HAPs - List:)	Not regulated.
Clean Air Act (CAA) (Section 112 (r) Accidental Release Prevention (40 CFR 68.130)):	Not regulated.
Safe Drinking Water Act (SDWA):	Not regulated.
TSCA U.S./Puerto Rico:	Listed
NDSL (Canada):	Not Listed
DSL (Canada):	Listed
EU (EINECS):	Listed
EU (ELINCS)	Not Listed
China IECSC:	Listed

Australia AICS:	Listed
Taiwan (TCSI)	Listed
Japan ENCS:	Listed
Philippines PICCS:	Listed
Korea ECL:	Listed
New Zealand:	Listed
California Prop. 65:	WARNING: This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer or reproductive toxicity. For more information, go to www.P65Warnings.ca.gov

16 OTHER INFORMATION

Revision Date:	15-Feb-2024
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.