

SECTION: 4. FIRST AID MEASURES

General Information:

No special measures required. Supply fresh air; consult doctor in case of complaints

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	Skin Contact:	Immediately wash with water and soap and rinse thoroughly.
	Eye Contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
	Ingestion:	Rinse out mouth and then drink plenty of water.
	Most important symptoms and effect, both acute and delayed:	No further relevant information available.
	Indication of any immediate medical attention and special treatment needed:	No further relevant information available.
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a		SECTION: 5. FIRE FIGHTING MEASURES
	Suitable extinguishing media:	Use fire fighting measure that suit the environment. The product is not flammable.
	Special protective equipment and precautions for fire- fighters:	Use protective measures that suit the hazard conditions.
	Special hazards arising from the substance or mixture:	None
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	:	SECTION: 6. ACCIDENTAL RELEASE MEASURES
1	Personal precautions, protective equipment and emergency procedures:	Not required
	Methods and materials for containment and cleaning up:	Avoid dust formation. Sweep or vacuum up, use type approved vacuum cleaner.

Environmental precautions

No special measures required.



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SECTION: 7. HANDLING AND STORAGE

Precautions for safe handling:

Provide vacuum dust collection if dust is formed.

The product is not flammable. Titanium Dioxide product may be packaged at temperatures of approximately 100 to 120 °C (212 to 248 °F) and stay hot for a long time depending on the ambient temperatures and inventory storage practiced. Due to the potential of elevated pigment temperature, caution should be used while handling pigment and in solvent applications.

Conditions for safe storage, including any incompatibilities: No special requirement

Further information about storage conditions: Store in dry conditions.

SECTION: 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters Components with limit values that require monitoring at the workplace; Additional Occupational Exposure Limit Values for possible hazards during processing: CAS: 13463-67-7 Titanium Dioxide ACGIH – TLV 10mg/m³ TWA OSHA – PEL 15* mg/m³ *total dust, 8hr TWA

()		(CA)
Exposure controls:	Use local exhaust ventilation if airborne con exceed applicable exposure limits.	centrations would otherwise
Personal protective equipment General protective and hygienic measure:	The usual precautionary measures for hand followed. Titanium dioxide pigments are not powders can absorb moisture and natural o during prolonged exposure. Prolonged expo wearing suitable protective gloves and cloth	irritant but as with all fine il from the surface of the skin osure should be avoided by
Breathing equipment:	If workplace exposure limits are exceeded, according to nation regulations. Use a NIOS particulates with N100, P100 or R100 filter. selected by a technically qualified individual	SH-approved respirator for The respirator must be
Protection of Hands:	Use gloves appropriate for work conditions	to minimize prolonged skin
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contact and prevent drying and subsequent irritation of skin. Check protective gloves prior to each use for their proper condition. Preventive skin protection by use of skin-protecting agents is recommended.

Eye protection:	Safety Glasses
Body protection:	Protective work clothing

SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder, White
Odor:	Odorless
Odor Threshold:	Not relevant
pH-value at 20°C (68°F):	7
Melting point/Melting range:	>1800°C (>3272°F)
Boiling point/Boiling range:	Not relevant
Flammability (solid, gaseous)	Product is not flammable
Flash point:	Not applicable
Ignition temperature:	Not applicable
Danger of Explosion:	Product is not explosive
Density:	20°C Anatase 3.9 g/cm ³ (30 lbs/ U.S. gal.)
E C	Rutile 4.2 g/cm^3 (35 lbs/ U.S. gal.)
Bulk density:	Ca, 500-900 kg/m³ (4.2 – 7.5 lbs/U.S. gal)
Vapor density:	Not applicable
Evaporation rate:	Not applicable
Solubility in/ Miscibility with Water:	Insoluble
Partition coefficient (n- octanol/water):	Not applicable
Viscosity dynamic:	Not applicable
Other Information:	No further relevant information available.
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SECTION: 10. STABILITY AND REACTIVITY

Reactivity:	The substance is stable under normal use conditions
Chemical stability / Thermal decomposition / Conditions to avoid:	No decomposition under normal use conditions.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	No further data
Incompatible materials:	No further data
Hazardous decomposition products:	No dangerous decomposition products known
S	ECTION: 11. TOXICOLOGICAL INFORMATION
Acute toxicity:	LD50 Oral: > 5000mg/kg (rat) (OECD 425) LD50 Dermal: > 5000 mg/kg (rabbit) LC50/4 th Inhalative: > 6.8 mg/l (rat)
Primary irritant effect:	
On the skin:	OECD 404: No irritant effect. Powderized material may dry and mechanically irritate skin.
On the eye:	OECD 405: No irritating effect. Like any foreign body, particles (dust) can cause mechanical irritation.
Sensitization:	OECD 406, OECD 429: No sensitizing effect.
Subacute to chronic toxicity:	NOARL Oral: 3500 mg/kg/d (r <mark>at) (90d)</mark> NOAEL Dermal: (-) No relevant data available NOAEC Inhalative: 10 mg/m ³ (rat) (90d)
Additional toxicological information:	In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have been shown to cause an increase In lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. The potential for these adverse health effects appears to be closely related to the particle size and the amount of the exposed surface area that comes Into contact with the lung. However, tests with other laboratory animals, such as mice and hamsters,
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Indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that may lead to lung cancer. Epidemiology studies do not suggest an increased risk of cancer in humans from occupational exposure to titanium dioxide.

Titanium dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 28) through inhalation (not Ingestion). It has not been characterized as a potential carcinogen by either NTP or OSHA.

IARC (International Agency 2B for Research on Cancer)

NTP (National Toxicology Program)

Substance is not listed

OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed

CMR effect (Carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity:Based on available data, the classification criteria are not met.Carcinogenicity:Based on available data, the classification criteria are not met.Reproductive toxicity:Based on available data, the classification criteria are not met.STOT-single exposure:Based on available data, the classification criteria are not met.STOT-repeated exposure:Based on available data, the classification criteria are not met.Aspiration hazard:Based on available data, the classification criteria are not met.

SECTION: 12. ECOLOGICAL INFORMATION	
Toxicity to fish:	Freshwater fish, Pimephales promelas LC50 (96h): > 1000 mg/l (static, EPA-540/9-85-006, Acute Toxicity for Freshwater Fish)
	Marine water fish: Cyprinodon variegatus LC50 (96h): > 10000 mg/l (semi-static, OECD 203)
Toxicity to Daphnia and other aquatic invertebrates:	Freshwater, Daphnia magna LC50 (48h): >1000 mg/l (static, equivalent or similar to OECO 202)
	Marine water, Acarlia lonsa LC50 (48h): > 10000 mg/l (ISO 14669 (1999); ISO 5667-16 (1998))



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	Toxicity to algae and aquatic plants:	Freshwater, Pseudokirchnerella subcapitata EC50 (72h): >100 mg/l (static, OECD 201)		
		Marine water, Skeletonema costatum EC50 (72h): > 10000 mg/l (ISO 10253)		
	Toxicity to sediment organisms:	Freshwater, Hyalella Azteca NOEC (28d): ≥ 100000 mg/kg sediment dw (semi-static, ASTM 1706)		
		Marine water, Corophium volutalor NOEC (10d): ≥ 14989 mg/kg sediment dw (semi-static, OSPARCOM guidelines (1995))		
	Persistence and degradability:	Not relevant for inorganic substances.		
2	Bioaccumulative potential:	Does not accumulate in organisms		
	Mobility in soil:	The substance is immobile in soil		
	Other adverse effects:	No further relevant information available.		
	SECTION: 13. DISPOSAL CONSIDERATION			
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ľ	Waste treatment methods recommendations:	Material is not a hazardous waste. Disposal must be made according to all federal, state, and local (municipal) regulations.		
ľ				
	recommendations: Uncleaned packaging	all federal, state, and local (municipal) regulations. Material is not a hazardous waste. Disposal must be made according to all federal, state, and local (municipal) regulations.		
[recommendations: Uncleaned packaging	all federal, state, and local (municipal) regulations. Material is not a hazardous waste. Disposal must be made according to all		
	recommendations: Uncleaned packaging	all federal, state, and local (municipal) regulations. Material is not a hazardous waste. Disposal must be made according to all federal, state, and local (municipal) regulations.		
	recommendations: Uncleaned packaging recommendations: UN-Number DOT, ADR/RID/AND, AND, IMDG, IATA UN proper	all federal, state, and local (municipal) regulations. Material is not a hazardous waste. Disposal must be made according to all federal, state, and local (municipal) regulations. SECTION: 14. TRANSPORT INFORMATION		
	recommendations: Uncleaned packaging recommendations: UN-Number DOT, ADR/RID/AND, AND, IMDG, IATA UN proper shipping name: DOT, ADR/RID/AND, AND,IMDG, IATA Transport	all federal, state, and local (municipal) regulations. Material is not a hazardous waste. Disposal must be made according to all federal, state, and local (municipal) regulations. SECTION: 14. TRANSPORT INFORMATION Not Applicable		

DOT, ADR/RID/AND, IMDG:

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IATA Environmental hazards:

Not an environmentally hazardous substance

Special precautions for user:

Not applicable.

Transport in bulk according Not applicable. to Annex II of MARPOL73/78 and the IBC Code:

	SECTION: 15. REGULATORY INFORMATION
SARA	Section 355 (Extremely Hazardous Substances): Substance is not Listed Section 313 (Specific toxic chemical listing): Substance is not listed
TSCA and Canada DSL Status:	Substance is listed
Proposition 65:	Chemicals known to cause cancer CAS: 13463-67-7 Titanium Dioxide
Additional Information: Carcinogenic Categories	The listing is for titanium dioxide as "airborne, unboune particles of respirable size" and does not cover titanium dioxide when it remains within a product matrix.
EPA (Environmental Protection Agency):	Substance is not listed
TLV (Threshold Limit Value Notation established by ACGIH):	A4 Not classifiable as human carcinogen
NIOSH-CA (National Institute for Occupational Safety and Health):	Substance is listed.
REACH registration number:	01-2119489379-17-xxxx
Substances of very high	The product is not listed as SVHC, it does not contain any substances of

ostances of very high concern (SVHC) according very high concern. to REACH, Article 57:

The product is not listed as SVHC, it does not contain substances of



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SECTION: 16. OTHER INFORMATION

Creation Date:	December 6 th , 2017
Revision Date:	December 6 ^{th,} 2021

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