Safety Data Sheet According to Regulation (EC) No 1907/2006

Titanium dioxide

Issue date:Jan,08.2024 Revision date:Jan,08.2024	S D S R ecord Number: CSSS-TCO-019-122780
Section 1 Identification of the substa	ance/mixture and of the company/undertaking
1.1 Product identifier:	
Identification on the label/Trade name:	Titanium dioxide
Additional identification:	Not available
Identification of the product:	CAS#13463-67-7; EC# 236-675-5
Index Number:	Not available
REACH registration No.:	01-2119489379-17-xxxx
1.2 Relevant identified uses of the subst	ance and uses advised against:
1.2.1 Identified uses:	
White pigment colorant.	
1.2.2 Uses advised against:	
Not available.	
1.3 Details of the supplier of the safety of	lata sheet:
Supplier(Only representative):	Chemical Inspection & Regulation Service Limited
Supplier(Manufacturer):	JIANGSU JINHAI HEZHONG TITANIUM CO.,LTD
Address:	NO. 18 JIARUILANE, SUZHOU INDUSTRIAL PARK, JIANGSU, CHINA
Contact person(E-mail):	postmaster@jinhaititanium.com
Telephone:	+86-512-62760915
Fax:	+86-512-62998959
1.4 Emergency telephone Number:	
+353 41 980 6916 (Only available during	office hours (8:30a.m17:30p.m.)
Available outside office hours?	YES NO X
Section 2 Hazards Identification	

2.1 Classification of the substance/mixture:

2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard codes
N/A	N/A

For full text of H- phrases: see section 2.2.

2.2 label elements:

Version 1.0

Hazard Pictograms:	No hazard pictogram is used.
Signal Word(S):	No signal word is used.
Hazard Statement:	Not applicable.
Precautionary statement:	Not applicable.

2.3 Other hazards:

Product name: Titani u m d i o x i d e

Section 3 Composition/information on ingredients

Substance/Mixture:

Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Titanium dioxide	01-2119489379-17-xxxx	13463-67-7	236-675-5	≥99%
Water content	N/A	7732-18-5	231-791-2	≪0.5%
Ash content	N/A	N/A	N/A	≪0.5%

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Move to a fresh air atmosphere. In case of persistent symptoms, consult a doctor.

4.1.2 In case of skin contact:

Wash with soap and water.

4.1.3 In case of eyes contact:

Rinse immediately with plenty of water. If irritation persists, seek medical attention.

4.1.4 In case of ingestion:

No adverse health effects anticipated by this route, however, in the event of ingestion, increase intake of liquid in order to flush from the body. In case of persistent symptoms, consult a doctor.

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

The product is not classified as harmful to human health effect.

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

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Fire-Fighting measures	
5.1 Extinguishing media:	
Suitable extinguishing media:	Use any media appropriate for combustible material in the area.
Unsuitable extinguishing media:	Not available.
5.2 Special hazards arising from the substance or mixture	No specific fire or explosion hazard.
5.3 Advice for firefighters:	Fire-fighters should wear appropriate protective equipment and self-contained
	breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Avoid generation of dust. Ensure adequate ventilation. Wear personal protective

	equipment.
6.1.2 For emergency responders:	Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.
6.2 Environmental Precautions:	Prevent run-off from entering ground, storm sewers and ditches which lead to
	natural waterways.
6.3 Methods for Containment and Cleaning	Use any feasible mechanical means (e.g. vacuum, sweeping) but avoid dusting
up:	during clean-up. The product can cause slippery conditions if wet.
6.4 Reference to other sections:	See Section 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.
	See Section 13 for information on disposal.

Section 7 Handling and storage	
7.1 Precautions for safe handling:	
7.1.1 Protective measures:	Avoid raising and breathing dust. Observe good industrial hygiene practice for chemical handling. Avoid raising dust. Handling systems and areas should be operated in such a way as to minimise exposure to dust. Local exhaust ventilation may be necessary. Take precautionary measures against static discharges. Manual handling guidelines should be adhered to when handling sacks.
7.1.2 Advice on general occupational hygiene:	Individuals having sensitive skin may find it beneficial to use a barrier cream or moisturizer when excessive or prolonged contact with the skin is likely. Engineering controls and safe systems of work should be used in preference to Personal Protective Equipment (PPE) to minimise the risk of exposure.
7.2 Conditions for safe storage, including any incompatibilities:	Pigments should not be stored in outside areas exposed to the weather. Care should be taken to avoid exposure to moisture. Incompatible materials: None. Packing material: Paper, Plastic.
7.3 Specific end use(s):	Not applicable.

Section 8 Exposure Controls/Personal Protection

Substance		Occupational I	Exposure Limit	Occupational E	Exposure Limit Va	llue (15-minute
		Value (8-hour re	eference period)		reference period	
	CAS No.	ppm	mg/ m3	ppm	mg/ m3	Notes
Titanium dioxide	13463-67-7					
total inhalable dust		-	10	-	-	-
respirable dust		-	4	-	-	-

8.1.1 Occupational exposure limits:

8.1.2 Additional exposure limits under the N conditions of use:

8.1.3 DNEL/DMEL and PNEC-Values:

e Not available.

Workers - Hazard via inhalation route - Local effects - Long term exposure - DNEL (Derived No Effect Level): 10 mg/m³
General Population - Hazard via oral route - Systemic effects - Long term exposure -DNEL (Derived No Effect Level): 700 mg/kg bw/day
PNEC aqua (freshwater): 0.184 mg/L
PNEC aqua (marine water): 0.018 mg/L
PNEC STP: 100 mg/L
PNEC sediment (freshwater): 1 000 mg/kg sediment dw

PNEC sediment (marine water): 100 mg/kg sediment dw

PNEC soil: 100 mg/kg soil dw

8.2 Exposure controls:

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8.2.1 Appropriate engineering controls: 8.2.2 Individual protection measures, such	Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
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Eye/face protection:	The use of dustproof goggles or glasses with side protections is recommended if
	dust concentrations are likely to exceed the occupational exposure limit.
Hand protection:	Prolonged exposure should be avoided by wearing suitable impervious protective
	gloves.
Body protection:	Respect main rules concerning the protection clothes for chemicals handling.
Respiratory protection:	A respirator must be used if the dust concentration is likely to exceed the
	occupational exposure limit. An approved dust respirator is recommended as
	appropriate depending on dust levels and other workplace factors.
Thermal hazards:	Wear suitable protective clothing to prevent heat.
8.2.3 Environmental exposure controls:	Avoid discharge into the environment.
	According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

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Appearance:	Powder
Colour:	White
Odour:	Odorless
Odour threshold:	Not available
pH:	6.5-8.5
Melting point/range (°C):	1560 °C
Boiling point/range (°C):	ca. 3000 °C
Flash point (°C):	Not available
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure (20°C):	Not available
Vapour density:	Not available
Density:	3.9 g/cm³ (20°C)
Bulk density (kg/m³):	Not available
Water solubility (g/l):	< 1 µg/L
n-Octanol/Water (log Po/w):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	Not available

Oxidising properties:	Not available
Molecular Formula:	TiO ₂
Molecular Weight:	79.87
9.2. Other information:	
Fat solubility(solvent- oil to be specified)	Not available
etc:	
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available

Section 10 Stability and reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling
	conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Incompatible materials.
10.5 Incompatible materials:	Not available
10.6 Hazardous decomposition products:	Not available

Section 11 Toxicological information

11.1 Information on toxicological effects:		
Acute toxicity:		
LD50(Oral, Rat):	> 5000 mg/kg bw	
LD50(Dermal, Rabbit):	Not available	
LC50(Inhalation, Rat):	> 6.82 mg/L 4h(male)	
Skin corrosion/Irritation:	Not classified	
Serious eye damage/irritation:	Not classified	
Respiratory or skin sensitization:	Not classified	
Germ cell mutagenicity:	Not classified	
Carcinogenicity:	Not classified	
Reproductive toxicity:	Not classified	
STOT- single exposure:	Not classified	
STOT-repeated exposure:	Not classified	
Aspiration hazard:	Not classified	

Section 12 Ecological information

12.1Toxicity:

Acute t	oxicity	Time	Species	Method	Evaluation	Remarks
LC50	155 mg/L	96h	Fish	OECD 203	N/A	N/A
LC50	>= 500 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	> 100 mg/L	72h	Algae	OECD 201	N/A	N/A

12.2 Persistence and degradability:

Not available.

12.3	Bioaccumulative	potential:
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12.4 Mobility in soil:

12.5 Results of PBT&vPvB assessment:

12.6 Other adverse effects:

Not available. log Kp: 4.61 L/kg The substance is not PBT / vPvB. Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods:

The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

Section 14 Transport information					
	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)		
UN-Number	Not regulated	Not regulated	Not regulated		
UN Proper shipping name	Not regulated	Not regulated	Not regulated		
Transport hazard Class	Not regulated	Not regulated	Not regulated		
Packaging group	Not regulated	Not regulated	Not regulated		
Environmental hazards	No	No	No		
Special precautions for user	See section 2.2	See section 2.2	See section 2.2		
Transport in bulk according to Annex II of Marpol and the IBC Code	Not regulated	Not regulated	Not regulated		

Section 15 Regulation information

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

Relevant information regarding authorization: Relevant information regarding restriction: Not applicable.

Not applicable.

Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations:

Other EU regulations:

Not applicable

YES

15.2 Chemical Safety Assessment has been carried out?

NO

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Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2015/830

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent

judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.