

 
 Metalurško kemična industrija Celje, d.d.
 t
 00386 (0)3 427 60 00

 Kidričeva 26
 f
 00386 (0)3 427 62 92

 SI-3001 Celje
 e
 info@cinkarna.si

 Change in
 c
 info@cinkarna.si
 Slovenija

- w www.cinkarna.si

SAFETY DATA SHEET	Page <b>1</b> of <b>7</b>
	Issued on: November 04, 2020
Trade name: Titanium dioxide	Revised on: October 17, 2023
	Version: 2

			Stance/mixture		ompany/undertaking	
1.1.	Product identifier:			Titanium dioxide pigments ( <b>TMP free</b> ):		
				RC 813, RC 823, I	RC 833, RC 843, RC 853	
				REACH registratio	n number: 01-2119489379-17	-0014
1.2.		entified uses of t mixture and uses	he advised against:	White pigment fo paper, enamel, ce	or application in paints, coat ramics.	ings, plastic material
				For industrial use	only.	
1.3.	Details of th distributor)	ne supplier of the	safety data sheet (	(manufacturer, imp	porter, only representative, d	ownstream user or
1.3.1.	Supplier nan	ne:		CINKARNA, Metallurgical and Chemical Industry CELJE, Inc.		
1.3.2.	Supplier add	lress and phone:		Kidričeva 26, SI-30	001 CELJE, SLOVENIA, +386	3 427 60 00
1.3.3.	E-Mail (com	petent person):		boza.suk-lubej@ci	inkarna.si	
1.4.	Emergency phone number:		In case of health risk, consult your doctor. Additional information available during working hours from 7 a.m. to 3 p.m.:			
				+386 3 427 65 81		
				+386 3 427 60 00		
2. H	azards ide	ntification				
2.1.	Classificatio	on of substance of	or mixture:	Regulation (EC) substance.	No. 1272/2008: Not classifi	ed. Not a hazardous
2.2.	Label eleme	Label elements:			does not meet the criteria for live.	abelling in accordance
2.3.	Other hazards:				no persistent, bioaccumulativ d very bioaccumulative(vPvB)	
3. C	ompositio	n/informatio	n on ingredien	ts		
3.1. /3.2.	Substances	/mixture: Substa	nce			
	ical name	cal name CAS No. REACH Registration No.	-	Concentration	Classification according	SCL,
			(% w/w)	to Regulation (EC) No.	M-factor,	
	-				1272/2008 (CLP)	ATE
Titaniu	ım dioxide	13463-67-7	01-2119489379- 17-0014	80 - 99,5	Not classified	/

Trade name: Titanium dioxide

	rst aid measures	
4.1.	Description of first aid measures	l
4.1.1.	Inhalation:	Ensure fresh air. Seek medical help in case the symptoms do not disappear.
4.1.2.	Skin contact:	Rinse the skin with soap and water. Seek medical assistance if necessary.
4.1.3.	Eyes/mycosis contact:	Rinse with copious amount of water. Seek medical help if necessary.
4.1.4.	Ingestion:	Rinse the mouth with water. Seek medical assistance if necessary.
4.2.	Most important symptoms and effects, acute and delayed:	Dust may irritate the respiratory tract or cause coughing.
4.3.	Indication of any immediate medical attention and special treatment needed:	Special care is not required.
5. Fi	refighting measures	
5.1.	Extinguishing media	
5.1.1.	Appropriate media:	Use all extinguishing media that comply with the substances in the local environment.
5.1.2.	Inappropriate media:	Unknown.
5.2.	Specific hazards arising from the substance or mixture:	The product is not reactive, flammable or combustible.
5.3.	Advice for firefighters:	Additional protection is not required. Protection in accordance with other circumstances.
6. Ad	ccidental release measures	
6.1.	Personal precautions protective equipment a	nd emergency procedures
6.1.1.	For non-emergency persons:	Avoid inhalation of the dust and contact with skin or eyes. If necessary, use protective equipment such as goggles and gloves.
6.1.2.	For emergency responders:	If necessary, use protective equipment such as goggles and gloves.
6.2.	Environmental precautions:	Do not wash into surface water or sewage system.
6.3.	Methods and material for containment and cl	eaning up
6.3.1.	Appropriate spillage retaining techniques (fencing, covering drains, retaining procedures):	Mechanically collect and remove without producing dust. Wet product may cause slippery floor.
6.3.2.	Appropriate cleaning procedures	
	Neutralization techniques:	Product is neutral.
	Decontamination techniques:	Not required.
	Absorbent materials:	All inert absorbent material is appropriate.
	Cleaning techniques:	Carefully remove into the waste container (chapter 13).
	Suction techniques:	With vacuum cleaner and dust particle filter.
	Required equipment for retaining/cleaning:	Basic protective equipment such as goggles and gloves.
6.3.3.	Inappropriate cleaning or retaining techniques:	Cleaning with compressed air.
6.4.	Reference to other sections:	Section 8 (PPE), section 13 (disposal).

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7. Ha	andling and storage	
7.1.	Precautions for safe handling	
7.1.1.	Recommendations shall be specified to:	Prevent inhalation of dust.
	Safe handling of substance or mixture:	Use basic protective equipment such as goggles and gloves.
	Prevent handling of incompatible substances or mixtures:	Not required.
	Operations and conditions which create new risks by altering the properties of the substance or mixture, and to appropriate countermeasure:	Unknown.
	Reduce the release of the substance or mixture to the environment:	Do not wash into surface water or sewage system.
7.1.2.	General working hygiene (prohibited eating, drinking and smoking within working area; washing hands):	Rules of basic working hygiene apply.
7.2.	Conditions for safe storage, including any inc	ompatibilities
	Management of risk associated with:	
	- explosive atmospheres:	No danger.
	- corrosive substances:	No danger.
	- incompatible substances or mixtures:	No danger.
	- evaporation substances:	The product is not volatile.
	- potential ignition sources:	No danger.
	How to control the effects of:	
	- weather conditions:	Store in closed and ventilated space.
	- ambient pressure:	Not required.
	- temperature:	Not required.
	- sunlight:	Not required.
	- humidity:	Store in closed and ventilated storage area. Long-term storage in humid spaces may influence some quality parameters.
	Securing integrity of substance or mixture by use of:	
	- stabilisers:	Not required.
	- antioxidants:	Not required.
	Other advice including:	
	- ventilation requirements:	Not required.
	- specific designs for storage rooms or vessels	Not required.
	(including retention walls and ventilation):	
	<ul> <li>quantity limitations regarding storage conditions:</li> </ul>	Not required.
	- packaging compatibility:	Not required.
7.3.	Specific end use(s):	Unknown.

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Trade name: Titanium dioxide

	xposure control/personal protection	
8.1.	Control parameters	
8.1.1.	Limit values (LV):	Inhalable 10 mg/m <sup>3</sup> , respirable 1,25 mg/m <sup>3</sup> (general dust)
	DNEL:	1,25 mg/m <sup>3</sup>
8.1.2.	PNEC:	Freshwater: > 0,127 mg/L
		Freshwater deposits: > 1000 mg/kg
		Sea water: > 0,62 mg/L
		Sea water deposits: > 100 mg/kg
		Soil: > 100 mg/kg
		Wastewater treatment plant: > 100 mg/kg
8.2.	Exposure control	
8.2.1.	Appropriate engineering controls:	Enable ventilation of working areas in order to keep the workers' exposure within limit values.
8.2.2.	Personal protective equipment:	
	- respiratory protection:	In case dusting occurs, use anti dust respirators FFP3 (EN 149).
	- skin protection:	Work clothing.
	- hand protection:	Gloves.
	- eye/face protection:	Protective goggles closed on the sides (EN 166).
	- heat radiation protection:	Not required.
	Other:	Washing hands before breaks and at the end of working hours.
9. Pl	hysical and chemical properties	
9.1.	Information on basic physical and chemical	properties
	Physical state:	Solid, crystalline
	Color:	White
	Odor:	Odourless
	pH:	Not applicable (solid substance).
	Melting/freezing point:	1843 °C
	Boiling point or initial boiling point and boiling range:	3000 °C
	Flash point:	Does not flash.
	Auto-ignition temperature:	No data available.
	Flammability (solid, gas):	The product is not flammable.
	Lower and upper explosion limit:	The product is not flammable or explosive.
	Vapor pressure:	Not applicable (solid substance).
	Density and/or relative density:	3,4 - 4,3 kg/dm <sup>3</sup>
	Solubility:	The product is not soluble.
	Partition coefficient (n-octanol-water):	Not applicable (solid substance).
	Decomposition temperature:	The product does not decompose.

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	Kinematic viscosity:	Not applicable (solid substance).
	Relative vapour density:	Not applicable (solid substance).
	Particle characteristics:	Amount of particles with an aerodynamic diameter $\leq$ 10 µm in the products from Section 1.1 is below 1 % according to method EN 15051-2; see also Section 11.1 carcinogenicity.
9.2.	Other information	
9.2.1.	Information on physical hazard classes	
	Explosives:	Not applicable.
	Flammable gases:	Not applicable.
	Aerosols:	Not applicable.
	Oxidising gases:	Not applicable.
	Flammable liquids:	Not applicable.
	Flammable solids:	Not applicable.
	Corrosive to metals:	Not applicable.
9.2.2	Other safety-related parameters:	Not applicable.
10. 5	Stability and reactivity	
10.1.	Reactivity:	The product is not reactive.
10.2.	Chemical stability:	The product is stable under normal conditions.
10.3.	Possible hazardous reactions:	No danger.
10.4.	Conditions to avoid:	Unknown.
10.5.	Incompatible materials:	Unknown.
10.6.	Hazardous decomposition products:	No dangerous decomposition known.
11. T	oxicological data	
11.1.	Information on hazard classes as defined	in Regulation (EC) No. 1272/2008
	Acute toxicity:	No classification
		Acute oral toxicity:
		Titanium dioxide: LD 50 / rat > 5000 mg/kg
		Acute oral toxicity by inhalation:
		Titanium dioxide: LD 50 / 4h rat > 6,82 mg/L
	Skin corrosion/irritation:	Does not cause skin irritation.
	Serious eye damage/irritation:	Does not cause eye irritation or is slightly irritating to eyes.
	Respiratory or skin sensitisation:	Inhalation of dust may cause nose, throat or lung irritation.
		If not removed in time, it can cause irritation of the mucous membrane.
		When ingested, it does not have harmful effects.
	Germ cell mutagenicity:	Tests for bacterial cultures and mammal cell cultures did not show any mutagenic effects.

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Trade name: Titanium dioxide		

Carcinogenicity:       Not classified based on available information.         Remarks:       According to commission Regulation (EU) 2020/217 TiO2 classified must be in powder form and contain 1 % or more p with aerodynamic diameter ≤ 10 µm. Data from testing product section 1.1 with standard method EN 15051-2 shows classified no needed.         Toxicity for reproduction:       It is not toxic for reproduction.         STOT - single exposure:       Unknown.         Aspiration hazard:       Inhalation of dust may cause nose, throat or lung irritation.         Endocrine disrupting properties:       None of the ingredients is listed.         12.1.       Toxicity:       Toxicity for fish:         CAS: 13463-67-7 titanium dioxide       LC50 / 96 h / Alburnus alburns: > 1000 mg/L         Toxicity for aquatic organisms:       CAS: 13463-67-7 titanium dioxide         EC50 / 72 h / Pseudokirchneriella subcapitata (green algae): 61       Toxicity for aquatic invertebrates:         CAS: 13463-67-7 titanium dioxide       EC50 / 48 h / Daphnia magna (water flea): > 1000 mg/L         12.2.       Persistence and degradability:       The product is bio non-degradable and insoluble in water.	articles ts from ation is
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12.2 <b>Biogeoumulative notantial</b>	
12.3.       Bioaccumulative potential:       The product does not accumulate in organisms.	
12.4.     Mobility in soil:     Unknown.	
12.5.       Results of PBT and vPvB assessment:       Product contains no persistent, bioaccumulative and toxic (F very persistent and very bioaccumulative (vPvB) components a 0,1 % or higher.	
12.6.       Endocrine disrupting properties:       Product does not contain components considered to have en disrupting properties.	docrine
12.7. Other adversative effects: Unknown.	
13. Disposal considerations	
13.1. Waste treatment methods: Disposal and removal in accordance with local and state regula	
14. Transport information	ions.
ADR, RID, ADN, IMDG, ICAO-TI/IATA-DGR According to international transport law, the product is not laber hazardous.	ions.
14.1. UN number or ID number: According to international transport law, the product is not laber hazardous.	
14.2. UN proper shipping name: Titanium dioxide.	elled as

Trade name: Titanium dioxide

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Data specified above are based on research and experience of the supplier at the time of compiling the present MSDS. The supplier may not assume responsibility in case the buyer/user should fail to use the product in accordance with the relevant suggestions and recommendations. No information contained in the present MSDS may release the buyer/user from liability to strictly follow any legal requirements regarding his business activities.