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SAFETY DATA SHEET	Page 1 of 6	
	Issued on: November the 7th,2008	
Trade name: METATITANIUM ACID	Revised on: November th 8th, 2021	
	Version: 7	

1.1.	Product identifier (Product registration number, nanoform, UFI):	Metatitanium acid (01-2119489379-17-001)	
.2.	Relevant identified uses of the substance/mixture and uses advised against:	Colour pigments, catalysts, ceramics, electronics industry	
	identified uses	process categories - PROC	categories release into the environment-ERC
	production of ceramics	PROC 1	
	electronics industry	PROC 1	
	production of color pigments	PROC 1	
	production of catalysts	PROC 1	
.3.	Details of the supplier of the safety data sheet (m distributor):	anufacturer, importer, only re	presentative, downstream user or
.3.1.	Supplier name:	CINKARNA CELJE, d.d.	
.3.2.	Supplier address and phone:	Kidričeva 26, 3001 CELJE, S	LOVENIJA, +386 3 427 60 00
.3.3.	E-Mail (competent person):	tatjana.rozman@cinkarna.si	
.4.	Emergency phone number:	In case of health risk, consult your doctor. Additional information is available: During working hours from 7 a.m. to 3 p.m. +386 3 427 65 78	
		+386 3 427 60 00	
2. Ha	azards identification		
.1.	Classification of substance or mixture:	Regulation (EC) No 1272/2008	3
		Skin irritation, hazard category 2;	H315
		Eye irritation, hazard category 2;	H319
2.2.	Label elements:	Labelling in accordance with	n Regulation no. 1272/2008
		Warning	
		H315 Causes skin irritation.	
		H319 Causes serious eye irrita	ation.
		EUH 211 Warning! Hazardous when sprayed. Do not breather	respirable droplets may be formed spray or mist
		P280 Wear protective gloves/pprotection.	protective clothing/eye protection/face
		P302+P352 IF ON SKIN: Was	h with plenty of soap and water.

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					P338 IF IN EYES: Rinse cautiou es. Remove contact lenses, if p ng.		
					of contents/container - neutrali ith national laws.	zed and disposed of in	
2.3.	Other hazards:			None			
3. C	omposition/i	nformation	on ingredien	ts			
3.1. /3.2	Substances/ m Mixture of hydra		e TiO2 x X H2O (a	s TiO <sub>2</sub> ) up to 31 %	o , up to 4,9 % H <sub>2</sub> SO <sub>4</sub> , water		
Chemic	al name	CAS No. EC No. Index No.	REACH Registration No. Reference No.	% wt/vol/max. conc.	Classification according to Regulation (EC) No 1272/2008 (CLP)	SCL, M-factor, ATE	
Hydrate TiO2 x 2H	d titanium dioxide, I₂O	236-675-5 13463-67-7	01-2119489379-17- 0014	26 % – 31 % as TiO2	Not hazardous substance	Not hazardous substance	
Sulfuric H <sub>2</sub> SO <sub>4</sub>	Acid,	7664-93-9 231-639-5 016-020-00-8	01-2119458838-20- 0082	1 ut % - 4,9 ut %	skin corr. 1A H314	Skin corr. 1A, H314:C>=15% Skin Irrit.2; H315:5%<=C<=15 %, Eye Irrit.2;H319:5%<=C <15%	
4. Fi	rst aid measu	ures					
4.1.	Description of	first aid measur	es:		inated clothing and footwear.	Jiffieult and as als	
	Inhalation:				fresh air, give oxygen, if breathing is o	announ and seek	
	Skin contact:			medical attention if symptom persist. Remove contaminated clothing, wash affected area with water. Seek medical attention if symptoms persist.			
	Eyes/mycosis co	ontact:		Flush eyes with lukewarm water, lifting upper and lower eyelids, for at least 15 minutes. Seek medical attention if symptoms persist.			
	Ingestion: Rinse mouth with water and drink lots of water, do not incite vomiting, se assistance.						
4.2	Most important and delayed:	t symptoms and	effects, acute	Cause irritation.			
4.3.	Indication of any immediate medical attention and special treatment needed:		In case of digestic	on, drink water and seek medical assis	stance.		
5. Fi	refighting me	easures					
5.1.	Extinguishing I	media					
	Appropriate media:			Metatitanium Acid is not flammable and non-explosive. Use suitable			
	Inappropriate m	edia:			extinguishing agents for surrounding materials and type of fire. No data, not flammable suspension		
5.2.			No data				
5.3.	Advice for firefighters:		Protective gloves Protective goggle	, protective clothes or apron, watertigh s or face shield.	t shoes or boots.		

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6. Ac	cidental release measures	
6.1.	Personal precautions protective equipment and emergency procedures	Evacuate area. Wear protective clothing, footwear and face shield or goggles within the hazardous area.
6.1.1.	For non-emergency persons:	Remove unauthorized.
6.1.2.	For emergency responders:	See 8.2.2.
6.2.	Environmental precautions:	Prevent drainage into water beds and sewer ducts.
6.3.	Methods and material for containment and cleaning up:	
6.3.1.	Appropriate spillage retaining techniques (fencing, covering drains, retaining procedures):	Impoundment embankment
6.3.2.	Appropriate cleaning procedures	
	Neutralization techniques:	Neutralise with lime
	Decontamination techniques:	Vacuum up spill Metatitanium Acid or neutralise with lime and then mechanically collect into designated and appropriately marked vessels /containers.
	Absorbent materials:	Lime
	Cleaning techniques:	Mechanically collect into designated and appropriately marked vessels /containers.
	Sucking techniques:	Procedure is possible. Collect into designated and appropriately marked vessels /containers.
	Required equipment for retaining /cleaning:	Shovels and suitable packaging.
6.3.3.	Inappropriate cleaning or retaining techniques:	Rinsing into water or earth, sewage or watercourse.
6.4.	Reference to other sections:	See 8.2.2.
7. Ha	Indling and storage	
7.1.	Precautions for safe handling	
7.1.1.	Recommendations shall be specified to:	No specific requirements. Use personal protective equipment.
	Safe handling of substance or mixture:	Familiarize operators handling the Metatitanium Acid with hazards, appropriate handling, personal protective equipment, and first aid measures in case of accidents, assistance and environment protection.
	Prevent handling of incompatible substances or mixtures:	See 10.5.
	Operations and conditions which create new risks	No special conditions, stabile suspension
	by altering the properties of the substance or mixture, and to appropriate countermeasure:	
		Storage floor must be made of acid resistant material.
7.1.2.	mixture, and to appropriate countermeasure: Reduce the release of the substance or mixture to	Storage floor must be made of acid resistant material. No smoking inside storage area, no food and beverage. Washing hands.
7.1.2.	mixture, and to appropriate countermeasure: Reduce the release of the substance or mixture to the environment: General working hygiene (prohibited eating, drinking and smoking within working area; washing	
	mixture, and to appropriate countermeasure: Reduce the release of the substance or mixture to the environment: General working hygiene (prohibited eating, drinking and smoking within working area; washing hands): Conditions for safe storage, including any	No smoking inside storage area, no food and beverage. Washing hands. Store in a tightly sealed container in cool, dry area. storage class 12 non-combustible
	mixture, and to appropriate countermeasure: Reduce the release of the substance or mixture to the environment: General working hygiene (prohibited eating, drinking and smoking within working area; washing hands): Conditions for safe storage, including any incompatibilities	No smoking inside storage area, no food and beverage. Washing hands. Store in a tightly sealed container in cool, dry area. storage class 12 non-combustible
	<ul> <li>mixture, and to appropriate countermeasure:</li> <li>Reduce the release of the substance or mixture to the environment:</li> <li>General working hygiene (prohibited eating, drinking and smoking within working area; washing hands):</li> <li>Conditions for safe storage, including any incompatibilities</li> <li>Management of risk associated with:</li> </ul>	No smoking inside storage area, no food and beverage. Washing hands. Store in a tightly sealed container in cool, dry area. storage class 12 non-combustible products
	mixture, and to appropriate countermeasure: Reduce the release of the substance or mixture to the environment: General working hygiene (prohibited eating, drinking and smoking within working area; washing hands): Conditions for safe storage, including any incompatibilities Management of risk associated with: - explosive atmospheres:	No smoking inside storage area, no food and beverage. Washing hands.         Store in a tightly sealed container in cool, dry area. storage class 12 non-combustible products         Not important, the suspension is not explosive

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	- potential ignition sources:	Not important, the suspension not flammable
	How to control the effects of	
	- weather conditions:	Not important, stable suspension
	- ambient pressure:	Not important, stable suspension
	- temperature:	Not under 0 °C
	- sunlight:	Not important, stable suspension
	- humidity:	Not important, stable suspension
	Securing integrity of substance or mixture by use of:	
	- stabilizers:	Not important, stable suspension
	- antioxidants:	Not important, stable suspension
	Other advice including:	Not important, stable suspension
	- ventilation requirements;	Not important, stable suspension
	<ul> <li>specific designs for storage rooms or vessels (including retention walls and ventilation):</li> </ul>	Not important, stable suspension
	- quantity limitations regarding storage conditions:	Not important, stable suspension
	- packaging compatibility:	Not important, stable suspension
7.3.	Specific end use(s):	See 1.2.

## 8. Exposure control/ personal protection

8.1.	Control parameters	
8.1.1.	-Limit values (MV):	Sulfuric acid aerosol – air concentration MV at workplace: 0.05 mg/m <sup>3</sup>
	-Limit values (BAT):	Not provided
	DNEL:	For sulfuric acid – 0.05 mg/m <sup>3</sup> (8 hours)
	PNEC:	Not provided
8.2.	Exposure control	See 5.,6.,7.,10.,11.,12. and 13. All must be permanently followed and controlled.
8.2.1.	Appropriate engineering controls:	stable suspension, personal equipment must always be in technically perfect condition and clean. Never use damaged equipment. Constant control is necessary
8.2.2.	Personal protective equipment:	Do not use damaged personal protective equipment.
	- respiratory protection:	Not needed during work. In case of fire see 5.3.
	- skin protection:	Protective clothing - protection against the effects of liquid chemicals (type 3 or type 4) - SIST EN 14605. Protective clothing against chemical effects (type 6-limited protection against liquid chemicals) - SIST EN 13034. Safety shoes SIST EN ISO 20345 (S3) or footwear protection against chemicals - Laboratory SIST EN 13832-2 and protective boots SIST EN ISO 20345 (S5)
	- hand protection:	Gloves for chemical protection - SIST EN ISO 374-1 Short-circuiting the hand Suitable material: Nitrile rubber Glove material thickness: 0,12 mm Breakthrough time (maximum wear time):> 480 min. In case of frequent contact with hands. Suitable material: Nitrile rubber Glove material thickness: 0,38 mm Penetration time (maximum wear time):> 480 min
	- eye/face protection:	Protective glasses (SIST EN 166). face shield
	- heat radiation protection:	Not important, stable suspension

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Other:	Not important, stable suspension
	See 5.,6.,7.,10.,11.,12. and 13. All must be permanently followed and controlled.
	See 5., 6., 7., 10., 11., 12. and 13. All must be permanently followed and controlled.
vsical and chemical properties	
Information on basic physical and chemical properties:	
- Physical state:	Suspension
- Color	White
- odour:	Without
pH:	>2
Melting/freezing point:	0°0
Boiling point or initial boiling point and boiling range	No data
Flash point:	Not flammable
Auto-ignition temperature:	Not flammable
flammability (solid, gas):	Not flammable
Lower and upper explosion limit:	Not flammable
Vapor pressure:	Not flammable
Density and/or relative density:	1300 g/L (at 25 ∘C)
Solubility:	Insoluble in water
partition coefficient: n-octanol-water:	No data
Decomposition temperature:	No data
Kinematic viscosity:	App. 100 mPas (at 20 °C) Brookfield
Relative vapour density:	No data
Other information:	Concentration of present Sulfuric Acid: 1 % - 4,9 % by weight
Information on physical hazard classes	
-Explosives:	
- Flammable gases:	Not flammable
- Aerosols:	Not flammable
- Oxidising gases:	Not flammable
- Flammable liquids:	Not flammable
- Flammable solids:	Not flammable
- Corrosive to metals:	slightly acidic suspension and corrosive to metals
Other safety-related parameters:	No data
tability and reactivity	
	Non-reactive.
	Stable and non-reactive under normal conditions of use and transport.
	No data, stable suspension
Possible hazardous reactions:	
Conditions to avoid:	No data, stable suspension
	properties:         - Physical state:         - Color         - odour:         pH:         Melting/freezing point:         Boiling point or initial boiling point and boiling range         Flash point:         Auto-ignition temperature:         flammability (solid, gas):         Lower and upper explosion limit:         Vapor pressure:         Density and/or relative density:         Solubility:         partition coefficient: n-octanol-water:         Decomposition temperature:         Kinematic viscosity:         Relative vapour density:         Other information:         Information on physical hazard classes         -Explosives:         - Flammable gases:         - Aerosols:         - Oxidising gases:         - Flammable solids:         - Corrosive to metals:         Other safety-related parameters:         tability and reactivity         Reactivity:         Chemical stability:

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10.6.	Hazardous decomposition products:	No data, stable suspension		
11. To	oxicological data			
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008			
	- Acute toxicity:	No data, the suspension is corrosive		
	- Skin corrosion/irritation:	Skin irritation, the suspension is corrosive, hazard category 2		
	- Serious eye damage/irritation:	Eye irritation, hazard category 2		
	- Respiratory or skin sensitisation:	Can cause irritation		
	- Germ cell mutagenicity:	Not mutagenic		
	- Carcinogenicity:	Not carcinogen		
	- Toxicity for reproduction:	No data, the suspension is corrosive		
	- STOT – single exposure:	No data, the suspension is corrosive		
	- STOT – repeated exposure:	No data, the suspension is corrosive		
	- Aspiration hazard:	Can cause irritation		
	- Endocrine disrupting properties	No data		
12. Ec	cological information			
12.1.	Toxicity:	not known, the suspension is corrosive		
12.2.	Persistence and degradability:	Product is practically insoluble in water (less than 1 %) and conventional solvents.		
12.3.	Bioaccumulative potential:	No data, the suspension is corrosive		
12.4.	Mobility in soil:	Liquid – suspension, seep into the ground, the suspension is corrosive		
12.5.	Results of PBT and vPvB assessment:	Not classified as PBT or VPvB		
12.6.	Endocrine disrupting properties:	No data		
12.7.	Other adversative effects:	No data, the suspension is corrosive		
13. Dis	sposal considerations			
13.1.	Waste treatment methods:	Cleaning with water or incineration with appropriate equipment. Dispose of in accordance with local and national regulations.		
14. Tr	ansport information			
	ADR, RID, AND, IMDG, ICAO-TI/IATA-DGR	Product not classified as dangerous according to transport legislation.		
14.1.	UN number or ID number:	Not required.		
14.2.	UN proper shipping name:	Not required, not ADR		
14.3	Transport hazard class(es):	Not required.		
14.4.	Packaging group:	Not required.		
14.5.	Environmental hazards:	Not required.		
14.6.	Special precautions for user:	Not required.		
14.7.	Maritime transport in bulk according to IMO instruments:	Not required.		
15. Regulatory information				
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture:	Rules and regulations regarding classification, labelling, and packaging of hazardous substances and compounds.		

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15.2.	Chemical safety assessment:	Regulation CLP and regulation REACH In accordance with the law on safety and health at work. yes			
			16. O	ther information	
				Amendments made in the revised edition:	Safety data sheet is amended in all sections in order to harmonize with applicable legislation.
	List of relevant, hazard statements, safety phrases and/or precautionary statements. Write out the full text of any statement which are not written out in full under Sections 2 to 15:	See 2.2.			
	in the case of mixtures, an indication of which of the methods of evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 was used for the purpose of classification:	by calculation methods			
	Training of personnel:	In accordance with the law on safety and health at work.			
	Key literature references and sources for data:	Safety data sheets Regulations REACH and CLP			
		Registrant: CINKARNA CELJE, D.D. CELJE SLOVENIJA			
	A key or legend to abbreviation and acronyms used in the safety data sheet:	PBT – persistent, bio accumulative and toxic vPvB – very persistent and very bio accumulative STOT – specific target organ toxicity DNEL – derived no effect levels PNEC – predicted no effect concentration ADR – European agreement concerning the international carriage of dangerous goods by road RID – International rule for transport of dangerous substances by railway ADN – European agreement concerning the International carriage of dangerous goods by inland waterways IMDG – International maritime dangerous goods code ICAO-TI – Technical instructions for the safe transport of dangerous goods by air			
		IATA – International air transport association			

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 SMDS may release the buyer/user from liability to strictly follow any legal requirements regarding his business activities.