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SAFETY DATA SHEET

Trade name: **ULTRAFINE TiO2 CCR 200 N**

Issued on: 12.08.2015

Revised on: 27.10.2022

Revised version No.: 6

1. Identification of the substance/mixture and of the company/undertaking

1.1.	**Product identifier (Product registration number, nanoform, UFI):**	**ULTRAFINE TiO2 CCR 200 N** UFI: 8910-60UM-G00D-SJNT	**Identification no.:** P944213, P944214
1.2.	**Relevant identified uses of the substance/ mixture and uses advised against:**	Photocatalyst used for self-cleaning effect (outdoor use, self-cleaning surfaces, glass, ceramics, self-cleaning building materials), decompositions of NOx, purification of water and air. Product is prepared as a stabilized suspension of ultrafine Titanium dioxide (TiO_2) in water.	
1.3.	**Details of the supplier of the safety data sheet (manufacturer, importer, only representative, downstream user, distributor):**		
1.3.1.	Supplier name:	CINKARNA CELJE, d.d.	
1.3.2.	Supplier address and telephone:	Kidričeva 26, 3001 Celje - Slovenija, +386 3 427 60 00	
1.3.3.	E-mail (competent person) :	peter.bastl@cinkarna.si	
1.4.	Emergency phone number :	In case of medical emmergency please contact the doctor. Additional informations are available during week from 7 AM to 3 PM on the telephone number +386 (0)3 427 6000.	

2. Hazards identification

2.1.	**Classification of substance or mixture:**	Oversensitivity of skin 1A, H317
2.2.	**Label elements:**	 GHS07 **WARNING** H317 May cause an allergic skin reaction. EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P501 Dispose of contents /container to in accordance with national regulations.
2.3.	**Other hazards:**	Contains: 2-methil-2H-izotiazol-3-on.

Reference to Chapter 16

3. Composition / information on ingredients

3.1. **Mixture**

Chemical name	CAS n. EC n. Index	Registration n. REACH	Conc. (wt/vol/ max. conc. %)	(Regulation (EC) No 1272/2008 (CLP)	SCL, M-faktor, ATE
Titanium dioxide	13463-67-7 236-675-5	01-2119489379-17001	20 - 22 %		
2-methylisothiazol-3(2H)-one	2682-20-4 220-239-6 613-326-00-9		0,0045-0,0055 %	Acute Tox. 2 Acute Tox. 3 Acute Tox. 3 Skin Corr. 1B Eye Dam. 1 Skin Sens. 1A Aquatic Acute 1 Aquatic Chronic 1 H330, H311, H301, H314, H318, H317, H400, H410	Skin Sens. 1A; H317: C >= 0,0015% M = 10 M (chronic)= 1

Reference to Chapter 16

4. First aid measures

4.1.	**Description of first aid measures**	Read the points below
	After inhalation:	Since the product is a suspension form, there is no potentially harmful powder form present.
	After skin contact:	Rinse skin with water and soap. If needed, seek medical assistance.
	After eye contact:	Rinse with water. Remove any contact lenses and continue rinsing with water for at least 15 minutes. Seek medical assistance if required.
	After Ingestion:	Rinse mouth with water; seek medical assistance if required.
4.2.	Most important symptoms and effects, acute and delayed:	Not known.
4.3	Indication of any immediate medical attention and special treatment needed:	Not required.

5. Fire-fighting measures

5.1.	**Extinguishing media**	
	Appropriate extinguishing media:	Product is not flammable. If the product is involved in a fire, all conventional fire extinguishing agents may be used (CO2, water mist, dry chemicals, etc.).
	Inappropriate extinguishing media:	Not known.

5.2.	**Specific hazards arising from the substance or mixture:**	
5.3.	**Advice for firefighters:**	No additional protection is needed. Protection in compliance with other circumstances.

6. Accidental release measures

6.1.	**Personal precautions protective equipment and emergency procedures**	
6.1.1.	For non-emergency persons:	Use protective equipment such as goggles and gloves (see Chapters 7 and 8).
6.1.2.	For emergency persons:	Use protective equipment such as goggles and gloves (see Chapters 7 and 8).
6.2.	**Environmental precautions**	Do not allow to enter into surface water or drains.
6.3.	**Methods and material for containment and cleaning**	
6.3.1	Appropriate spillage retaining techniques (fencing, covering drains, retaining procedures):	Prevent outflow in canalization and surface waters. Mechanically collect into designated and appropriately marked vessels / containers.
6.3.2.	Appropriate cleaning procedures	
	Neutralization techniques:	Product is neutral.
	Decontamination techniques:	Not needed.
	Absorbent materials:	All inert absorbent materials.
	Cleaning techniques:	Mechanically collect into designated and appropriately marked vessels / containers. Use inert absorbent material.
	Sucking techniques:	Not known. Product is in liquid form.
	Required equipment for retaining / cleaning:	Use protective equipment such as goggles and gloves.
6.3.3.	Inappropriate retaining or cleaning techniques:	Not known.
6.4.	**Reference to other sections:**	Not needed.

7. Handling and storage

7.1.	**Precautions for safe handling**	
7.1.1.	Recommendations shall be specified to:	Storage in closed vessels in suspension form.
	Safe handling of substance or mixture:	Avoid skin and eye contact.
	Prevent handling of incompatible substances or mixtures:	Product is inert.

	Operations and conditions which create new risks by altering the properties of the substance or mixture, and to appropriate countermeasure:	Product is inert.
	Reduce the release of the substance or mixture to the environment:	Product should not be released in canalization or surface waters.
7.1.2.	General working hygiene (prohibited eating, drinking and smoking within working area; washing hands, etc.):	Normal working hygiene.
7.2.	**Conditions for safe storage, including any incompatibilities**	
	Management of risks associated with:	
	- explosive atmospheres	No danger.
	- corrosive substances:	No danger.
	- incompatible substances or mixtures:	No danger.
	- evaporation substances:	Does not evaporate.
	- potential ignition sources:	No danger.
	How to control the effects of:	
	- weather conditions:	No danger.
	- ambient pressure:	No danger.
	- temperature:	Do not expose it over or below recommended handling temperature 5- 40 °C.
	- sunlight:	Do not expose it to direct sunlight.
	- humidity:	No danger.
	Securing integrity of substance or mixture by use of:	
	- stabilisers:	No danger.
	- antioxidants:	No danger.
	Other advice including:	
	- prevention specifications:	Data not available.
	- specific designs for storage rooms or vessels (including retention walls and ventilation):	Not needed
	- quantity limitations regarding storage conditions:	Not needed

	- packaging compatibility:	Not needed
7.3.	**Specific end use(s):**	Data not available.

8. Exposure control / personal protection

8.1.	**Control parameters**	
8.1.1.	Limit values (LV):	1000 mg/m3.
	Limit values (BAT):	Data not available.
	DNEL	Data not available.
	PNEC	Data not available.
8.2.	**Exposure control**	
8.2.1.	Appropriate technical and engineering controls:	Data not available.
8.2.2.	Personal protective equipment:	Standard personal protection equipment
	- respiratory protection:	Not needed.
	- skin protection:	Protective clothing - SIST EN ISO 13688; protective footwear SIST EN ISO 20345. .
	- hand protection:	Protective gloves - SIST EN ISO 374-1 (Latex, Nitril), Thickness 0.1 - 0.4 mm for single use, 0.5 - 1 mm for multiple use, penetration time 480 min.
	- eye/ face protection:	Protective goggles - SIST EN 166.
	- heat radiation protection:	No danger
	Other:	Normal working hygiene.
8.2.3.	Environment exposure control	See chapter 7.1.1.

Reference to Chapter 16

9. Physical and chemical properties

9.1.	**Information on basic physical and chemical properties**	
	- physical state:	White liquid.
	- colour:	White
	- odour:	Slightly pleasant smell.
	- pH:	6 - 8 (water suspension)

	- melting/ freezing point:	~ 0°C
	- boiling point or initial boiling point and boiling range: - flash point: - auto-ignition temperature:	~ 100°C Data not available. Data not available.
	- flammability (solid, gas): - upper /lower flammability or explosive limit: - vapour pressure:	Not flamable No danger Data not available.
	- relative density: - solubility: - partition coefficient: noctanol/water	~ 1,2 kg/L (room temperature) Data not available. Data not available.
	- spontaneous combustion temperature:	Data not available.
	- decomposition temperature: - kinematic viscosity:	Data not available. Data not available.
9.2. 9.2.1	**Other information** Information on physical hazard classes - Explosives:	No other data Not explosive.
	- Flammable gases: - Aerosols:	Not flamable. Look 2.2.
	- Oxidising gases: - Flammable liquids:	Not oxydative. Not flamable.
	- Flammable solids:	Not flamable.
	- Corrosive to metals:	Not corrosive.

10. Stability and reactivity

10.1. 10.2.	**Reactivity:** **Chemical stability:**	Not reactive. Stable.
10.3.	**Possible hazardous reactions:**	Data not available.

10.4.	**Conditions to avoid:**	Heating over boiling point.
10.5.	**Incompatible materials:**	No danger.
10.6.	**Hazardous decomposition products:**	No danger.

11. Toxicological data

11.1	**Information on hazard classes as defined in Regulation (EC) No 1272/2008**	Product is not toxic.
	- acute toxicity:	Product is not toxic.
	- skin corrosion /irritation:	Product does not irritate skin.
	- serious eye damage/ irritation:	Product could cause eye irritation.
	- respiratory or skin sensitisation:	Can cause alergic skin response.
	- germ cell mutagenicity:	Data not available.
	- Carcinogenicity:	Data not available.
	- toxicity for reproduction:	Data not available.
	- STOT ? single exposure:	Data not available.
	- STOT ? repeated exposure:	Data not available.
	- aspiration hazard:	No danger.
	- Endocrine disrupting properties:	No danger.

Reference to Chapter 16

12. Ecological information

12.1.	**Toxicity:**	Product is not toxic.
12.2.	**Persistence and degradability:**	Inert material. Not biologically degradable.
12.3.	**Bioaccumulative potential:**	Data not available.
12.4.	**Mobility in soil:**	See chapter 7.1.1 - realease
12.5.	**Results of PBT and vPvB assessment:**	Data not available.
12.6	**Endocrine disrupting properties:**	No danger.
12.7.	**Other adversative effects:**	Data not available.

Reference to Chapter 16

13. Disposal considerations

13.1.	**Waste treatment methods:**	Dispose of in accordance with local, state and federal regulations

14. Transport information

	ADR, RID, ADN, IMDG, ICAOTI/IATA-DGR	Product is not under ADR regulations.
14.1.	**UN number or ID number:**	Not due.
14.2.	**UN proper shipping name (technical name if required):**	Product is not under ADR regulations.
14.3.	**Transport hazard class:**	Data not available.
14.4.	**Packaging group:**	Data not available.
14.5.	**Hazard to environment:**	No danger
14.6.	**Special precautions for user:**	Not needed
14.7.	**Bulk transport by MARPOL 73/78 Annex II and IBC Code:**	Not due

15. Regulatory information

15.1.	**Safety, health and environmental regulations/legislation specific for the substance or mixture:**	CLP Regulation; REACH Regulation; Chemicals Act; Occupational Safety and Health Act; Rules on personal protective equipment; Rules on the Protection of Workers from the Risks of Exposure to Chemical Substances at Work; Rules on requirements for ensuring the safety and health of workers at workplaces; List of harmonized standards, the use of which creates a presumption of conformity of a product with requirements.
15.2.	**Chemical safety assessment:**	Data not available.

16. Other information

	Amendments made in the revised edition:	2.1 Oversensitivity of skin 1A, H317 2.2 Label elements added (H+P sentences, pictogram and WARNING) 3.1 Added 2-methil-2H-izotiazol-3-on and H sentences 6.2 Added text for environmental safety measures 7.2 Temperature text modified 8.1.1 limit value added, calculated on 2-metil-2H-izotiazol-3-on 8.2.2 Beside the standards, the years of the newest versions were removed 11.1 Text was added under 4th row - oversensitivity of skin 15.1 New text added

	List of relevant hazard statements (H) and precautionary statements (P) which have not been written out in full in sections 2 to 15:		
		H301	Toxic if swallowed.
		H311	Toxic in contact with skin.
		H314	Causes severe skin burns and eye damage.
		H317	May cause an allergic skin reaction.
		H318	Causes serious eye damage.

		H330	Fatal if inhaled.
		H400	Very toxic to aquatic life.
		H410	Very toxic to aquatic life with long lasting effects.
	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:	Calculation Method.	
	Key literature references and sources for data:	MSDS, REACH, CLP	
	Training of personnel:	In compliance with regulations for safety at workplace.	
	A key or legend to abbreviation and acronyms used in the safety data sheet:	ADR	European Agreement concerning the International
		DNEL	Derived No Effect Level
		PBT	Persistent, Bioaccumulative, Toxic
		PNEC	Predicted No Effect Concentration
		STOT	Specific target organ toxicity
		VPvB	Very Persistent, Very Bioaccumulative

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.