

# SAFETY DATA SHEET

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 Trade name: **ULTRAFINE TiO2 CCR 150**

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.   | <b>Product identifier (Product registration number, nanoform, UFI):</b>  | <b>ULTRAFINE TiO2 CCR 150</b>  | <b>Identification no.:</b><br>P944113, P944114 |
| 1.2.   | <b>Relevant identified uses of the substance/ mixture and uses advised against:</b>  | UV protection, transparent coatings, as an additive to plastics  |  |
| 1.3.   | <b>Details of the supplier of the safety data sheet (manufacturer, importer, only representative, downstream user, distributor):</b> |  |  |
| 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 emergency please contact the doctor.<br><br>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. | <b>Classification of substance or mixture:</b> | Oversensitivity of skin 1A, H317  |  |
| 2.2. | <b>Label elements:</b>                         | <br>GHS07<br><br><b>WARNING</b><br>H317 May cause an allergic skin reaction.<br>EUH211 Warning! Hazardous respirable droplets may be formed when sprayed.<br>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.<br>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.<br>P501 Dispose of contents /container to in accordance with national regulations. |  |
| 2.3. | <b>Other hazards:</b>                          | Contains: 2-methyl-2H-izotiazol-3-on.   |  |

Reference to Chapter 16

## 3. Composition / information on ingredients

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| 3.1. Mixture |  | Chemical name                | CAS n.<br>EC n.<br>Index               | Registration n.<br>REACH | Conc.<br>(wt/vol/<br>max.<br>conc. %) | (Regulation (EC) No<br>1272/2008 (CLP)   | SCL, M-faktor, ATE   |
|--------------|--|------------------------------|--|--------------------------|---------------------------------------|--|--|
|              |  | Titanium dioxide             | 13463-67-7<br>236-675-5                | 01-2119489379-<br>17001  | 15 - 17 %                             |  |  |
|              |  | 2-methylisothiazol-3(2H)-one | 2682-20-4<br>220-239-6<br>613-326-00-9 |                          | 0,0045 -<br>0,0055 %                  | Acute Tox. 2<br>Acute Tox. 3<br>Acute Tox. 3<br>Skin Corr. 1B<br>Eye Dam. 1<br>Skin Sens. 1A<br>Aquatic Acute 1<br>Aquatic Chronic 1<br>H330, H311, H301,<br>H314, H318, H317,<br>H400, H410 | Skin Sens. 1A;<br>H317: C >= 0,0015%<br>M = 10<br>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 (CO <sub>2</sub> , 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.  |

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|        |   |   |
|--------|---|---|
| 6.1.   | <b>Personal precautions protective equipment and emergency procedures</b>                   |   |
| 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.   | <b>Environmental precautions</b>  | Do not allow to enter into surface water or drains.   |
| 6.3.   | <b>Methods and material for containment and cleaning</b>                                    |   |
| 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.   | <b>Reference to other sections:</b>   | Not needed.   |

**7. Handling and storage**

|        |   |   |
|--------|---|---|
| 7.1.   | <b>Precautions for safe handling</b>  |   |
| 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.                             |

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|        |   |   |
|--------|---|---|
|        | 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.   | <b>Conditions for safe storage, including any incompatibilities</b>   |   |
|        | 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.   | <b>Specific end use(s):</b>   | Data not available.   |

**8. Exposure control / personal protection**

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|        |   |  |
|--------|---|--|
| 8.1.   | <b>Control parameters</b>                       |  |
| 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.   | <b>Exposure control</b>                         |  |
| 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. | <b>Information on basic physical and chemical properties</b> |                             |
|      | - physical state:  | White liquid.               |
|      | - colour:  | White                       |
|      | - odour:   | Slightly pleasant smell.    |
|      | - pH:  | 6 - 8 ; in water suspension |
|      | - melting/ freezing point:                                   | ~ 0°C                       |
|      | - boiling point or initial boiling point and boiling range:  | ~ 100°C                     |
|      | - flash point:   | Data not available.         |
|      | - auto-ignition temperature:                                 | Data not available.         |

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|                                     |   |                               |
|-------------------------------------|---|-------------------------------|
|                                     | - flammability (solid, gas):                    | Not flammable                 |
|                                     | - upper /lower flammability or explosive limit: | No danger                     |
|                                     | - vapour pressure:                              | Data not available.           |
|                                     | - relative density:                             | ~ 1,2 kg/L (room temperature) |
|                                     | - solubility:                                   | Data not available.           |
|                                     | - partition coefficient: noctanol/water         | Data not available.           |
|                                     | - spontaneous combustion temperature:           | Data not available.           |
|                                     | - decomposition temperature:                    | Data not available.           |
|                                     | - kinematic viscosity:                          | Data not available.           |
| 9.2.                                | <b>Other information</b>                        | No other data                 |
| 9.2.1                               | Information on physical hazard classes          |                               |
|                                     | - Explosives:                                   | Not explosive.                |
|                                     | - Flammable gases:                              | Not flammable.                |
|                                     | - Aerosols:                                     | Look 2.2.                     |
|                                     | - Oxidising gases:                              | Not oxydative.                |
|                                     | - Flammable liquids:                            | Not flammable.                |
|                                     | - Flammable solids:                             | Not flammable.                |
|                                     | - Corrosive to metals:                          | Not corrosive.                |
| <b>10. Stability and reactivity</b> |   |                               |
| 10.1.                               | <b>Reactivity:</b>                              | Not reactive.                 |
| 10.2.                               | <b>Chemical stability:</b>                      | Stable.                       |
| 10.3.                               | <b>Possible hazardous reactions:</b>            | Data not available.           |
| 10.4.                               | <b>Conditions to avoid:</b>                     | Heating over boiling point.   |
| 10.5.                               | <b>Incompatible materials:</b>                  | No danger.                    |
| 10.6.                               | <b>Hazardous decomposition products:</b>        | No danger.                    |
| <b>11. Toxicological data</b>       |   |                               |

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|      |   |                                     |
|------|---|-------------------------------------|
| 11.1 | <b>Information on hazard classes as defined in Regulation (EC) No 1272/2008</b> | 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 allergic 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. | <b>Toxicity:</b>                           | Product is not toxic.                        |
| 12.2. | <b>Persistence and degradability:</b>      | Inert material. Not biologically degradable. |
| 12.3. | <b>Bioaccumulative potential:</b>          | Data not available.                          |
| 12.4. | <b>Mobility in soil:</b>                   | See chapter 7.1.1 - release                  |
| 12.5. | <b>Results of PBT and vPvB assessment:</b> | Data not available.                          |
| 12.6  | <b>Endocrine disrupting properties:</b>    | No danger.                                   |
| 12.7. | <b>Other adversative effects:</b>          | Data not available.                          |

Reference to Chapter 16

**13. Disposal considerations**

|       |                                 |  |
|-------|---------------------------------|--|
| 13.1. | <b>Waste treatment methods:</b> | Dispose of in accordance with local, state and federal regulations |
|-------|---------------------------------|--|

**14. Transport information**

|       |  |                                       |
|-------|--|---------------------------------------|
|       | <b>ADR, RID, ADN, IMDG, ICAOT/IATA-DGR</b> | Product is not under ADR regulations. |
| 14.1. | <b>UN number or ID number:</b>             | Not due.                              |

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|       |  |                                       |
|-------|--|---------------------------------------|
| 14.2. | <b>UN proper shipping name (technical name if required):</b> | Product is not under ADR regulations. |
| 14.3. | <b>Transport hazard class:</b>                               | Data not available.                   |
| 14.4. | <b>Packaging group:</b>                                      | Data not available.                   |
| 14.5. | <b>Hazard to environment:</b>                                | No danger                             |
| 14.6. | <b>Special precautions for user:</b>                         | Not needed                            |
| 14.7. | <b>Bulk transport by MARPOL 73/78 Annex II and IBC Code:</b> | Not due                               |

## 15. Regulatory information

|       |  |  |
|-------|--|--|
| 15.1. | <b>Safety, health and environmental regulations/legislation specific for the substance or mixture:</b> | 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. | <b>Chemical safety assessment:</b>   | Data not available.  |

## 16. Other information

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



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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:

Training of personnel:

Key literature references and sources for data:

A key or legend to abbreviation and acronyms used in the safety data sheet:

Calculation Method.

In compliance with regulations for safety at workplace.

MSDS, REACH, CLP

|      |   |
|------|---|
| 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.