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

1.1. Product identifier (Product registration number): ULTRAFINE TiO2 CCR 220 Mn Identification no.: P944413, P944414

1.2. Relevant identified uses of the substance/ mixture and uses advised against: UV protection, transparent coatings, as an additive to plastics

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. PE TITANOV DIOKSID

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. 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

Reference to Chapter 16

2.2. Label elements: Contains: 2-methil-2H-izotiazol-3-on

![GHS07]

WARNING
H317 May cause an allergic skin reaction.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Nositi zaščitne rokavice/zaščitno obleko/zaščito za oči/zaščito za obraz.
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: Data not available.

3. Composition / information on ingredients

3.1. Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS n.</th>
<th>EC n.</th>
<th>Index</th>
<th>Registration n. REACH</th>
<th>Conc. (wt/vol/ max. conc. %)</th>
<th>(Regulation (EC) No 1272/2008 (CLP) Hazard statements (H))</th>
<th>Hazard class and hazard category</th>
</tr>
</thead>
</table>
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:

Hazardous combustion products: Not known.

5.3. Advice for firefighters:

No additional protection is needed. Protection in compliance with other circumstances.
### 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:

- **Safe handling of substance or mixture:**  
  Avoid skin and eye contact.

- **Prevent handling of incompatible substances or mixtures:**  
  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.
### 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.
- **vibrations:** 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

| Limit values (LV): | 1000 mg/m3. |

Reference to Chapter 16

<table>
<thead>
<tr>
<th>DNEL</th>
<th>Data not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC</td>
<td>Data not available.</td>
</tr>
</tbody>
</table>

#### 8.2. Exposure control

| Appropriate technical and engineering controls: | Data not available. |
| Personal protective equipment: | Standard personal protection equipment |
| - **respiratory protection:** | Not needed. |
| - **skin protection:** | Protective clothing - SIST EN ISO 13888; 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.

### 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>- appearance:</td>
<td>White liquid.</td>
</tr>
<tr>
<td>- colour:</td>
<td>White</td>
</tr>
<tr>
<td>- odour:</td>
<td>Slightly pleasant smell.</td>
</tr>
<tr>
<td>- pH:</td>
<td>6 - 8 (water suspension)</td>
</tr>
<tr>
<td>- melting/freezing point:</td>
<td>~ 0°C</td>
</tr>
<tr>
<td>- boiling point and boiling range:</td>
<td>~ 100°C</td>
</tr>
<tr>
<td>- flash point:</td>
<td>Data not available.</td>
</tr>
<tr>
<td>- vaporization rate:</td>
<td>Data not available.</td>
</tr>
<tr>
<td>- flammability (solid, gas):</td>
<td>Not flammable</td>
</tr>
<tr>
<td>- upper/lower flammability or explosive limit:</td>
<td>No danger</td>
</tr>
<tr>
<td>- vapour pressure:</td>
<td>Data not available.</td>
</tr>
<tr>
<td>- vapour density:</td>
<td>Data not available.</td>
</tr>
<tr>
<td>- relative density:</td>
<td>~ 1.2 kg/L (room temperature)</td>
</tr>
<tr>
<td>- solubility:</td>
<td>Data not available.</td>
</tr>
<tr>
<td>- partition coefficient: n-octanol/water</td>
<td>Data not available.</td>
</tr>
<tr>
<td>- spontaneous combustion temperature:</td>
<td>Data not available.</td>
</tr>
<tr>
<td>- decomposition temperature:</td>
<td>Data not available.</td>
</tr>
<tr>
<td>- viscosity:</td>
<td>Data not available.</td>
</tr>
<tr>
<td>- explosion properties:</td>
<td>Data not available.</td>
</tr>
<tr>
<td>- oxidation properties:</td>
<td>Data not available.</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

- No other data.

### 10. Stability and reactivity

#### 10.1. Reactivity:
- Not reactive.

#### 10.2. Chemical stability:
- 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 toxicological effects
Product is not toxic.

Reference to Chapter 16

- **acute toxicity:** No danger.
- **skin corrosion /irritation:** No danger.
- **serious eye damage/ irritation:** No danger.
- **respiratory or skin sensitisation:** No danger.
- **germ cell mutagenicity:** No danger.
- **Carcinogenicity:** No danger.
- **toxicity for reproduction:** No danger.
- **STOT ? single exposure:** No danger.
- **STOT ? repeated exposure:** No danger.
- **Inhalation hazards:** No danger.

### 12. Ecological information

#### 12.1. Toxicity:
Product is not toxic.

#### 12.2. Persistence and degradability:
Inert material. Not biologically degradable.

#### 12.3. Accumulation in organisms:
Data not available.

#### 12.4. Mobility in soil:
See chapter 7.1.1 - realease

#### 12.5. PBT and vPvB assessment results:
Data not available.

#### 12.6. 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, ICAO-TII/IATA-DGR
Product is not under ADR regulations.

#### 14.1. UN number:

#### 14.2. UN proper shipping name (technical name if required):
Product is not under ADR regulations.

#### 14.3. Transport hazard class:
ni podatka

#### 14.4. Packaging group:
ni podatka

#### 14.5. Hazard to environment:
No danger
### 14. Safety data sheet

#### 14.6. Special precautions for user:

Not needed

#### 14.7. Bulk transport by MARPOL 73/78 Annex II and IBC Code:

Not due

#### 14.8. Tunnel code:

ni podatka

#### 14.9. Classification code:

Data not available.

#### 14.10. Hazard label:

No danger

### 15. Regulatory information

#### 15.1. Rules and regulations regarding health, safety and environmental hazard specific to 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-methyl-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-methyl-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 R phrases, 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.
- **H330** Fatal if inhaled.
- **H400** Very toxic to aquatic life.
- **H335** May cause respiratory irritation.

#### Training of personnel:

In compliance with regulations for safety at workplace.

#### Sources:

MSDS, REACH, CLP

#### 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.