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

· **Informations to product No. 2700**

· **Product name:**

Titandioxid
Titanii dioxidum

· **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH

Herderstr. 31

40721 Hilden

Tel.: 02103/4994-0

Fax: 02103/32360

e-mail: info@caelo.de

· **Emergency telephone:**

Giftinformationszentrum Mainz

Langenbeckstr. 1, 55131 Mainz

Tel.: 06131/19240

· **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

· **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

2 Hazards identification

· **Hazards identification:** The substance is not classified as dangerous according to European Union legislation.

3 Composition / information on ingredients

· **Chemical characterization:**

CAS-No. Substance name

13463-67-7 Titan(IV)-oxid

· **EINECS-No.:** 236-675-5

· **REACH-Reg.-No.:** 01-2119489379-17

· **INCI-Name:** Titanium dioxide


4 First aid measures

· **after inhalation:** Fresh air

· **after skin contact:** Wash off with water.

· **after eye contact:** Rinse out with plenty of water with the eyelid wide open.

· **after swallowing:** (big quantities): If feeling unwell seek medical advice.

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5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Not combustible.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

6 Accidental release measures

- **Personal protective measures:** Avoid inhalation of dust, Avoid dust formation.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage

- **Handling:** No special requirements.
- **Storage:**
- **Requirements for storage areas and containers:**
Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- **Advices on common storage:** Not required.
- **Additional informations to storage conditions:** none

8 Exposure controls / personal protective equipment

Components with limit values that require monitoring at the workplace:

TRGS900 :

Alveoles passing fraction 3 mg/m³ (8h) ; 6 mg/m³ (15 min.)


respirable fraction 10 mg/m³ (8h) 20 ; mg/m³ (15 min.)

• **Personal protective equipment:**

- **General protective and hygiene measures:** The usual precaution measures during handling of chemicals are to observe.
- **Respiratory protection:** Required if dusts are generated.
- **Hand protection:** Not required.
- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** 1855 °C
- **Boiling point / boiling range:** 2500 - 3000 °C
- **Flammability:** The product is not flammable.
- **Density:** (20 °C) ca.3,9 g/cm³
- **Bulk density:** ca.850 kg/m³
- **Solubility in / Miscibility with**
- **Water:** not soluble

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- **pH-range:** (20 °C) neutral

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.
- **Materials to avoid:** Strong reductants.
- **Hazardous reactions:** With alkali metals, earth alkali metals, aluminium powder, zinc powder
- **Hazardous decomposition products:** none

11 Toxicological information

- **Acute toxicity:**
LD/LD50-data relevant for hazard classification:
Oral: LD50: >10000 mg/kg (rat)
Inhalativ: LC50: > 6,8 mg/l/4h (rat)
- **Primary irritating effect:**
 - **on skin:** Not irritant.
 - **on eyes:** Not irritant.
- **Additional toxicological informations:** In case of appropriate handling and usage the product does not cause harmful effects.

12 Ecological information

- **Aquatic toxicity:**
Fish toxicity *Leuciscus idus* LC0:> 1000 mg/l/48h
Bacteria EC0: 5000 mg/l
Not acute harmful for water organisms.
- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

13 Disposal considerations


- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**
Not classified as dangerous in the meaning of transport regulations.

15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

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The product does not need to be labelled according to GHS-regulations.

- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 13

16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

- **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.