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

- **Informations to product No. 2126**
- **Product name:**

Calciumcitrat-Tetrahydrat
Calcii citras tetrahydricus
Calcium citrate tetrahydrate

- **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

5785-44-4 Tricalcium dicitrate tetrahydrate

- **EINECS-No.:** 212-391-7
- **REACH Reg. No.:** 01-2119457590-37-0000
- **INCI-Name:** -

4 First aid measures

- **General advices:** No special measures required.
- **after inhalation:** Fresh air, if feeling unwell seek medical advice
- **after skin contact:** Wash away with water
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** If feeling unwell continuously 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:** Combustible, but not flammable. In case of fire dangerous vapours/gases can be generated: Smoke gases.
- **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 dust formation.
- **Environmental protective measures:** Prevent from leaking into sewage water, ground water system or surface waters.
- **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.
- **Advice on safe handling:** Keep container tightly closed.
- **Informations to fire or explosion protection:** Dust can generate explosive mixtures with air. Dust explosion class ST1 (low hazard level)
- **Storage:**
- **Advices on common storage:** Do not store together with acids, oxidants or heavy metal compounds.

8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **General protective and hygiene measures:**
The usual precaution measures during handling of chemicals are to observe.
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Not required.
- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** not determined
- **Boiling point / boiling range:** not determined
- **Explosion hazard:** Dust can generate explosive mixtures with air.
- **Density:** not determined
- **Solubility in / Miscibility with**
- **Water:** (18 °C) 0,85 g/l, (23 °C) 0,96 g/l

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- **pH-range:** (Suspension 25 g/l, 20 °C) 5 - 6

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant 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

- **Ecotoxic effects:**
Quantitative ecotoxicological data for this product are not available.
- **Water hazard class:** nwg (self classification): not 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):**
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:** 11

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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.