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

· **Informations to product No. 2322**

· **Product name:**

Kaliumcitrat

Kalii citras

Potassium citrate

· **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

6100-05-6 Potassium citrate monohydrate

· **EINECS-No.:** 212-755-5

· **REACH Reg. No.:** 01-2119457580-38

· **INCI-Name:** Potassium Citrate


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:** 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 entering into drains.
- **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).

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:** Protection gloves of latex or rubber.
- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** 230 °C
- **Vapour pressure:** hPa
- **Density:** (20 °C) 1,98 g/cm³
Bulk density: ca. 800 kg/cbm
- **Solubility in / Miscibility with**
- **Water:** (25 °C) 606 g/l
- **pH-range:** (5 g/l, 20 °C) 7,5 - 9

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10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Decomposition above 230°C
- **Hazardous reactions:** none.
- **Hazardous decomposition products:** none

11 Toxicological information

- **Acute toxicity:**
LD50 (mouse) 5400 mg/kg (OECD 401)
LD50 (rat) 11700 mg/kg (OECD 401)
LD50 (rat, dermal) 2000 mg/kg (Ratte)
- **Primary irritant effect:**
On skin: not irritant
In Eyes: not irritant
- **Sensitizing effect:** not sensitizing (OECD 406)
- **Additional toxicological informations:**
In case of appropriate handling and usage the product does not cause harmful effects

12 Ecological information

- **Aquatic toxicity:**
Fish LC50: 760 mg/l
LC50: > 18000 - 32000 mg/l (Poecilia reticulata); 672 h
Daphnia: EC50 5600 - 10000 mg/l (Daphnia magna 48 h)
Algae: 18000 - 32000 mg/l (Chlorella vulgaris 96 h) (OECD 201)
Bacteria EC50: > 1800 - 3200 mg/l/8h
Not acute harmful for water organisms.
In case of appropriate handling and usage the product does not cause harmful ecological effects.
- **log p(O/W):** -1,8 - -0,2
- **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**

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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

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.