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

· **Informations to product No. 2330**

· **Product name:**

Kaliumhydroxid, Plätzchen

Potassium hydroxide

Kalii hydroxidum

· **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

· **GHS-Labeling Elements:**



· **Signal word:** Danger

· **H-Phrases:**

H314 Causes severe skin burns and eye damage

H290 May be corrosive to metals

· **P-Phrases:**

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301 IF SWALLOWED:

P330 Rinse mouth

P331 Do NOT induce vomiting


P309 IF exposed or you feel unwell:

P310 Immediately call a POISON CENTER or doctor/physician

P305 IF IN EYES:

P351 Rinse continuously with water for several minutes

Skin Corr. 1A

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3 Composition / information on ingredients

• **Chemical characterization:**

CAS-No. Substance name

1310-58-3 Potassium hydroxide

• **EINECS-No.:** 215-181-3

• **Index-No.:** 019-002-00-8

• **REACH-Reg.-No.:** 01-2119487136-33-0000

• **INCI-Name:** Potassium hydroxide

4 First aid measures

- **General advices:** Take off contaminated clothes immediately.
- **after inhalation:** Bring the person out of the contaminated area to fresh air, Seek medical help immediately. Show product-label or this MSDS.
- **after skin contact:** Wash away with plenty of water. Wash away with Polyethylenglykol 400. Remove contaminated clothing immediately.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open , seek medical advice, even if no immediate symptoms are observed.
- **after swallowing:** Drink plenty of water. Avoid vomiting. Seek medical advice immediately.

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.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.

6 Accidental release measures

- **Personal protective measures:** Avoid dust formation.
- **Environmental protective measures:** Prevent from entering into surface water, the ground water system or soil.
- **Methods for cleaning:**
Vorsichtig aufnehmen. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage

- **Handling:**
- **Advice on safe handling:** No special measures required.
- **Storage:**
- **Requirements for storage areas and containers:**
Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
Do not store in containers of aluminium, tin, zinc.

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8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **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:** 360 °C
- **Boiling point / boiling range:** 1327 °C
- **Density:** (20 °C) 2,04 g/cm³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 1120 g/l
- **pH-range:** (50 g/l, 20 °C) > 13,5

10 Stability and reactivity


- **Materials to avoid:**
Metals (combined with oxygen and/or moisture), Aluminium alloys (generates hydrogen gas), Ammonium compounds (generates ammonia), Earth alkali metals, halogens, Halogenated hydrocarbons, halogen oxides, organic nitrates phosphorous, non-metal oxides, acids (explosion hazard!).
- **Hazardous decomposition products:** none
- **Additional information:** Extremely hygroscopic; exothermic solution process in water, keep away from metals, glass, animal/plant tissue.

11 Toxicological information

- **Acute toxicity:**
LD/LD50-data relevant for hazard classification:
1310-58-3 Potassium hydroxid. Oral: LD50: 273 mg/kg (rat)
- **Primary irritating effect:**
- **on skin:** Strong burnings on skin and mucous membranes.
- **on eyes:** Strong burnings (Danger of corneal clouding and blindness).
- **after swallowing:** Burnings on: esophagus, stomach (strong pain, danger of perforation!).

12 Ecological information

- **Aquatic toxicity:**
Toxic for water organisms: LC50: 10 mg/l/96h
- **Remark:**
Biological effects: Harmful effect due to pH-shifting. Corrosive even in diluted solutions.
- **General advices:** Prevent from entering sewage water or drainage ditch undiluted or unneutralized.
- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

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13 Disposal considerations


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

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Potassium hydroxide, solid
- **Class:** 8
- **UN-number:** 1813
- **Packing group:** II
- **Classification code:** C6
- **Limited quantities (Table 3.4.6. ADR):** 1 kg
- **Hazard classification number:** 80
- **Special provisions (Chapter 3.3 ADR):** -
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-B
- **Properties:** -

15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**
The product is classified and labelled according to GHS-regulations.
- **Hazard symbols:** GHS05
- Signal word:** Danger
- **H-Phrases:**
H314 Causes severe skin burns and eye damage
H290 May be corrosive to metals
- **P-Phrases:**
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301 IF SWALLOWED:
P330 Rinse mouth
P331 Do NOT induce vomiting
P309 IF exposed or you feel unwell:
P310 Immediately call a POISON CENTER or doctor/physician
P305 IF IN EYES:
P351 Rinse continuously with water for several minutes
- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 8B

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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.