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

· **Informations to product No. 2714**

· **Product name:**

**Harnstoff**  
Ureum, Urea pura

· **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

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

## 3 Composition / information on ingredients

· **Chemical characterization:**

**CAS-No. Substance name**

57-13-6 Carbamide

· **EINECS-No.:** 200-315-5

· **REACH Reg. No.:** 01-2119463277-33-0000


· **INCI-Name:** Urea

## 4 First aid measures

- **after skin contact:** Wash away with water. Change contaminated clothes.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** (big quantities): If feeling unwell seek medical advice.

## 5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting

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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 contact with substance.
- **Environmental protective measures:** prevent from entering into drainage, surface waters or soil.
- **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:** Required if dusts are generated.
- **Hand protection:** Protection gloves of rubber or latex.
- **Eye protection:** Safety glasses

## 9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** faint smell of ammonia
- **Melting point / melting range:** 133 °C
- **Boiling point / boiling range:** Decomposition below boiling point..
- **Flash point:** not applicable.
- **Flammability (solid, vapours):** The product is not flammable.
- **Vapour pressure:** (75 °C) 0,002 hPa
- **Density:** (20 °C) 1,34 g/cm<sup>3</sup>
- **Bulk density:** 720 - 760 kg/m<sup>3</sup>
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 1080 g/l
- **pH-range:** (100 g/l, 20 °C) ca. 9

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## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use. Thermal decomposition above 132 °C.
- **Materials to avoid:** Oxidants, nitrites, nitrosyl compounds, perchlorates, phosphor, Halogenes.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** Ammonia, nitrogen oxides (In case of fire).

## 11 Toxicological information

- **Acute toxicity:**  
**LD/LD50-data relevant for hazard classification:**  
57-13-6 Harnstoff  
Oral: LD50: 8471 mg/kg (rat) (RTECS)  
Oral: LD50: 8200 mg/kg (rat) (IUCLID)
- **Primary irritant effect:** No irritant effect on skin and mucous membranes.
- **after swallowing:** Illness and vomiting.

## 12 Ecological information

- **Aquatic toxicity:**  
Fish: LC50 *Leuciscus idus*: >6810 mg/l/96h  
Daphnia: EC50 *Daphnia magna*: >10.000 mg/l/24h  
Algae: *Scenedesmus quadricauda*: > 10.000 mg/l/7d  
Bacteria: *Pseudomonas putida*: >10.000 mg/l/16h
- **Information about elimination (persistence and degradability):** Easily biodegradable: 96%/16d (OECD 302B)
- **Log pOW:** -1,59
- **General advices:** Prevent from entering sewage water or drainage ditch undiluted or unneutralized.
- **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:** 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.