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

· **Informations to product No. 2459**

· **Product name:**

Natriumperborat, wasserhaltig
Natrii perboras hydricus, Natrium perboricum
Sodium perborate

· **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:**

H302 Harmful if swallowed

H318 Causes serious eye damage

H335 May cause respiratory irritation

H360 May damage fertility or the unborn child

· **P- Phrases:**


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

P305 IF IN EYES:

P351 Rinse continuously with water for several minutes

P202 Do not handle until all safety precautions have been read and understood

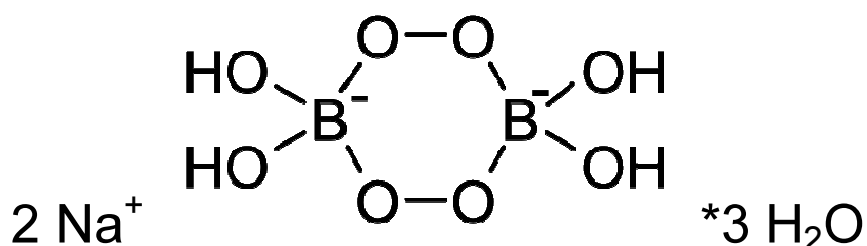
Acute Tox. 4

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Eye Dam. 1
STOT SE 3
Repr. 2

3 Composition / information on ingredients

• Chemical characterization:



CAS-No. Substance name

10486-00-7 Sodium perborate trihydrate $\text{NaBO}_2 \cdot \text{H}_2\text{O}_2 \cdot 3\text{H}_2\text{O}$ ($\text{NaBO}_3 \cdot 4\text{H}_2\text{O}$)

- **EC-No.:** 600-611-8
- **REACH Reg. No.:** (pre-registered)
- **INCI-Name:** Sodium Perborate

4 First aid measures


- **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:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open. Call in ophthalmologist.
- **after swallowing:** Drink water. Induce vomiting. Seek medical advice.

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, but releases oxygen in case of heating.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **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 and contact with substance.
- **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.

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7 Handling and storage

- **Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
- **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:**
- **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:** 63 °C (decomposition)
- **Density:** 1,73 g/cm³
- **Bulk density:** ca. 720 kg/m³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) ca. 23 g/l
- **pH-range:** (15 g/l, 25 °C) ca. 10

10 Stability and reactivity

- **Materials to avoid:** Metals, strong acids and bases, reducing agents.
- **Hazardous decomposition products:** no informations available.

11 Toxicological information

- **Acute toxicity:**
LDLO Oral - Infant - 400 mg/kg
LDLO Oral - Child - 250 mg/kg
LDLO Oral - Human - 214 mg/kg
LD50 Oral - rat - 2567 mg/kg
LD50 Dermal - rabbit - > 2.000 mg/kg
- **Primary irritant effect:**
- **Skin corrosion/irritation :** Nicht reizend
- **Eye irritation:** Irritant
- **after swallowing:** Irritations of mucous membranes.
- **Additional toxicological informations:** Animal experiments showed evidence for harmful effect on fetus.

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12 Ecological information

- **Aquatic toxicity:**

Fish: LC50 - Danio rerio (zebra fish) - 51 mg/l - 96 h

Daphnia: EC50 - Daphnia magna: EC50: 11 mg/l

Bacteria: pseudomonas putida: EC50: 290 mg/l

Algae: IC50 - Desmodesmus subspicatus (green algae) - 26,8 mg/l - 96 h

- **Biodegradation:** ca. 85% / 2d (Easily biodegradable).

- **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):**

The product is classified and labelled according to GHS-regulations.

- **Hazard symbols:** GHS07, GHS05, GHS08

- **Signal word:** Danger

- **H-Phrases:**

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- **National regulations (Germany):**

- **Water hazard class:** see chapter 12

- **Storage class TRGS 510:** 6.1D

16 Other Information

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

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