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

- Informations to product No. g154
- Product name:

Natriumhypochlorit-Lösung, 1% Chlor Natrii hypochloritis solution, 1% chlorum Liq Na hypochl Sodium hypochlorite solution with 1% chlorine

- 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: Warning

- H-Phrases:

H315 Causes skin irritation
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects


- P- Phrases:

P305 IF IN EYES:
P351 Rinse continuously with water for several minutes

Eye Irrit. 2

Skin Irrit. 2

Aquatic Chronic 3

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3 Composition / information on ingredients

• **Chemical characterization:** Mixture of 10% sodium hypochlorite solution 12,5% chlorine and 90% water (Aqua purificata)

CAS-No. Substance name

7681-52-9 Sodium hypochlorite solution (GHS05, GHS09; H314-H400), 10%

- **EINECS-No.:** 231-668-3
- **Index-No:** 017-011-00-1
- **REACH Reg. No.:** 01-2119488154-34-0000
- **INCI-Name:** -

CAS-No. Substance name

7732-18-5 Water (90%)

- **EINECS-No.:** 231-791-2
- **REACH Reg. No.:** Exempted from the obligation to register according to Annex 4 / 5 REACH-regulation.
- **INCI-Name:** Aqua

4 First aid measures


- **after inhalation:** Not relevant.
- **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 , seek medical advice, even if no immediate symptoms are observed.
- **after swallowing:** Drink plenty of water immediately, if possible with activated coal 3-4 spoons. Avoid vomiting, danger of perforation. Laxans: sodium sulphate 1 spoon on 1 glass water. 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. In case of fire dangerous vapours/gases can be generated: Chlorine.
- **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:** Wear protective equipment. Keep away not protected persons.
- **Environmental protective measures:** Prevent from entering into surface water, the ground water system or soil.
- **Methods for cleaning:** Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust.

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7 Handling and storage

- **Handling:**
- **Advice on safe handling:** protect from heat and light. Decomposes after heating to oxygen, dichloroxide, chlorine or hydrogen chloride.
- **Storage:**
- **Requirements for storage areas and containers:** Keep container tightly closed, but with pressure valve. Protect from light. Temperature below 15 °C. Do not use metal containers.
- **Advices on common storage:** Do not store together with acids.

8 Exposure controls / personal protective equipment

Components with limit values that require monitoring at the workplace:

7782-50-5 Chlorine

Germany, BGW Long time exposure: No information available.

Europe, EU; STEL: 0,5 ppm; 1,5 mg/m³

Germany, TRGS 900

- AGW: 0,5 ppm; 1,5 mg/m³

• **Personal protective equipment:**

- **Respiratory protection:** Good ventilation of working place.
- **Hand protection:** Protection gloves of PVC or rubber.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties


- **Form:** liquid
- **Colour:** nearly colourless
- **Odour:** faint odour of chlorine
- **Melting point / melting range:** < 0 °C
- **Boiling point / boiling range:** 100 °C
- **Flash point:** not relevant
- **Vapour pressure:** (20 °C) 20 hPa
- **Density:** (20 °C) ca. 1,02 g/cm³
- **Solubility in / Miscibility with**
- **Water:** Completely miscible
- **pH-range:** (20 °C) 11 – 11,4

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Thermal decomposition after heating. Avoid heat and light.
- **Materials to avoid:** Acids, reductants.
- **Hazardous decomposition products:** Chlorine, Dichloroxide, Hydrogen chloride, Oxygen.

11 Toxicological information

- **Acute toxicity:**
LD50 (oral, rat) > 5000 mg/kg

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LD50 (dermal, rabbit) > 5000 mg/kg

- **Primary irritant effect:**
- **on skin:** Irritant effect.
- **on eyes:** Irritant effect.

12 Ecological information

- **Information about elimination (persistence and degradability):** Inorganic product, no biological elimination from water. Chemical degradation by reduction to chloride.
- **Aquatic toxicity:**
Fish LC50/96h: 0,01 – 0,1 mg/l
Daphnia EC50/48h: 0,01 – 0,1 mg/l
Bacteria: Toxic limit concentration: 0,375 mg/l
- **Behaviour in sewage plants:** In biological sewage plants disturbances of the biodegradation activity of bacteria are possible.
- **Additional information:** Product can contribute to AOX contamination by halogenation of organic substances.
- **General advices:** Prevent from entering sewage water or drainage ditch undiluted or unneutralized. Danger for drinking water if even small quantities leak into the ground.
- **Water hazard class:** 12 (VwVwS): 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
- **Signal word:** Warning
- **H-Phrases:**
H315 Causes skin irritation
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects
- **P- Phrases:**
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- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 12
- **VbF class:** -

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.