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

· **Informations to product No. 4178**

· **Product name:**

**Chlorhexidindigluconat-Lösung (wässrig, 20%), API**  
Chlorhexidini digluconatis solutio

· **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:**

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

· **P-Phrases:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray


P281 Use personal protective equipment as required

P305 IF IN EYES:

P351 Rinse continuously with water for several minutes

**Eye Dam. 1**

**Aquatic Acute 1**

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### 3 Composition / information on ingredients

- **Chemical characterization:** Solution of chlorhexidine digluconate in water.

**CAS-No. Substance name**

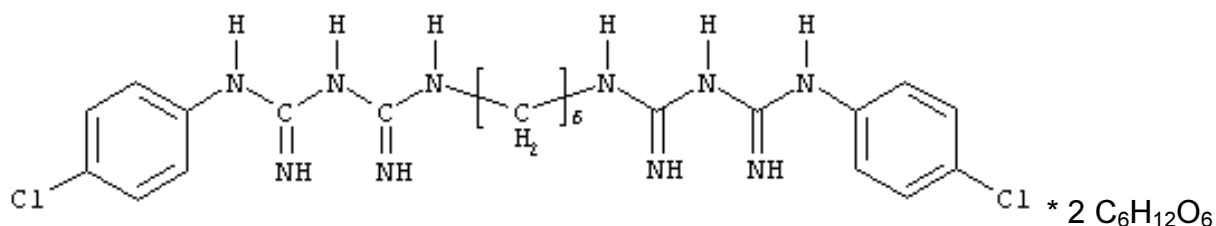
18472-51-0 Chlorhexidine digluconate (20%)

- **EINECS-No.:** 242-354-0
- **REACH Reg. No.:** 01-2119946568-22-0000
- **INCI-Name:** Chlorhexidine Digluconate

**CAS-No. Substance name**

7732-18-5 Water (80%)

- **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:** Fresh air. If feeling unwell seek medical advice.
- **after skin contact:** Remove contaminated clothing. Wash off with water.
- **After eye contact:** Rinse out with plenty of water with the eyelid wide open. Call in ophthalmologist if irritation continues.
- **after swallowing:** Rinse mouth, drink plenty of water. 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:** Combustible but not flammable. In case of fire dangerous gases / vapours can be released: Smoke gases, organic chlorine compounds.
- **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 contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust. Disposal according to Chapter 13 of this MSDS. Clean up with water.

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## 7 Handling and storage

- **Handling:** The usual precaution measures during handling of chemicals are to observe.
- **Informations to fire or explosion protection:** No special measures required.
- **Storage:** Tightly closed. Store at a dry place. At room temperature ( +15°C to +25°C ). Do not freeze.

## 8 Exposure controls / personal protective equipment

### Components with limit values that require monitoring at the workplace:

The product does not contain relevant quantities of substances with limit values that require monitoring at the workplace.


- **Personal protective equipment:**
- **General protective and hygiene measures:**  
Keep away from food, beverages and animal food.  
Wash hands before breaks and after work.  
Berührung mit den Augen vermeiden.
- **Respiratory protection:** not required.
- **Hand protection:** Protection gloves of latex or rubber
- **Eye protection:** Safety glasses.

## 9 Physical and chemical properties

- **Form:** liquid
- **Colour:** clear
- **Odour:** odourless
- **Melting point / melting range:** not determined
- **Boiling point / boiling range:** 105 °C
- **Flash point:** not determined
- **Density:** (20 °C) 1,065 g/cm<sup>3</sup>
- **Viscosity:** 1,47 cSt
- **pH-range:** 5,5 - 7,0
- **Solubility in water:** readily soluble
- **Ethanol:** 21 g/l
- **Isopropanol:** 35 g/l
- **Aceton:** 44 g/l

## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**  
Protect from heat, fire and direct sunlight.
- **Hazardous reactions:** protect from strong oxidants.
- **Hazardous decomposition products:** In case of fire dangerous vapours/gases can be generated.

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## 11 Toxicological information

- **Acute toxicity:**

LD50 (oral, rat): 2000 mg / kg.

- **Swallowing:** Ingestion may cause irritation of the gastrointestinal tract.
- **on respiratory organs:** No information available. Risk of inhalation toxicity
- **Skin contact:** Mean lethal dose dermal (rabbit) > 2000mg/kg. Repeated and / or prolonged skin contact may lead to dermatitis.
- **Eye contact:** strong irritant
- **Skin corrosion:** No evidence of irritant effects from normal handling and use
- **Eye injuries:** Severe irritation of the eye
- **Respiratory / Skin:** Rare allergic directorates. No sensitizing properties known.
- **Mutagenity:** There is no evidence of mutagenic potential.
- **Carcinogenicity:** There is no evidence that this product is carcinogene under normal conditions of handling and use.
- **Reproductive toxicity:** no evidence
- **Specific target organ toxicity single exposure:** may irritate the respiratory tract
- **Aspiration:** no aspiration toxicity

## 12 Ecological information

- **Aquatic toxicity:**

Acute toxicity (Fish): 2,08mg/l

Acute toxicity (Daphnia magna): 0,087 mg/l

Acute toxicity (Algae): 0,081 mg/l


- **Biodegradation:** 70% (10d): Readily biodegradable.
- **logPOW:** <4
- **Remark:** Do not allow to enter surface and ground water, waste water or soil. Biocide, toxic for micro organisms.
- **Water hazard class:** 3 (VwVwS): very hazardous for water.

## 13 Disposal considerations

- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

## 14 Transport information

- **Land transport according to ADR:**
- **Substance name:** Environmentally hazardous liquid,n.o.s., Chlorhexidingluconatlösung 20%
- **Class:** 9
- **UN-number:** 3082
- **Packing group:** III
- **Classification code:** M6
- **Limited quantities (Table 3.4 ADR):** 5 l
- **Hazard classification number:** 90
- **Special provisions (Chapter 3.3 ADR):** 274
- **Additional informations for sea transport IMDG:**

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- **EMS-No.:** F-A, S-F
- **Properties:** m.p.

## 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, GHS09

- **Signal word:** Danger

- **H-Phrases:**

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

- **P-Phrases:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P281 Use personal protective equipment as required

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

- **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.