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

· **Informations to product No. 5526**

· **Product name:**

Pilocarpinhydrochlorid, API Pilocarpini hydrochloridum

· **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.

3 Hazards identification

· **GHS-Labeling Elements:**



· **Signal word:** Danger

· **H-Phrases:**

H300 Fatal if swallowed

H330 Fatal if inhaled

· **P-Phrases:**


P264 Wash ... thoroughly after handling

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

P301 IF SWALLOWED:

P310 Immediately call a POISON CENTER or doctor/physician

Acute Tox. 2 (inhal., oral)

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2 Composition / information on ingredients

- **Chemical characterization:**

- **CAS-No. Substance name**

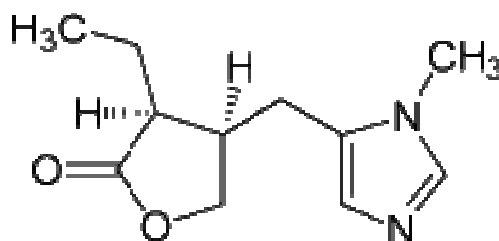
54-71-7 Pilocarpinhydrochlorid

- **EINECS-No.:** 200-212-5

- **Index-No.:** 614-017-00-1

- **REACH Reg. No.:** (pre-registered)

- **INCI-Name:** -




4 First aid measures

- **after inhalation:** Fresh air or oxygen, assure medical help immediately.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap, seek medical advice immediately, even if no immediate symptoms are observed.
- **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. Induce vomiting. Activated coal (20 g to 40 g in 10 % suspension). Seek medical advice immediately.
- **Medical advice:**
- **The following symptoms might occur:** After resorption of toxic quantities: Cramps, respiratory paralysis. For parasympathomimetics generally: These physiologically highly active substances cause – dependant on their dosage – after oral consumption salivating and secretion of nose and eyes. Sweat secretion, myosis, vertigo, Vomiting, colics, diarrhea. Danger of collapse and und asystolia.

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. In case of fire dangerous vapours/gases can be generated: Smoke gases.
- **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.

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6 Accidental release measures:

- **Personal protective measures:** Avoid substance contact and dust formation.
- **Environmental protective measures:** Prevent from entering into surface water, the ground water system 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:**
- **Advice on safe handling:** Ensure good ventilation/exhaustion at the workplace. Handling corresponding to laboratory safety guidelines.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C). Good ventilation. Protect from light.
- **Advices on common storage:** TRGS 514 "Storage of toxic and very toxic substances ..."

8 Exposure controls / personal protective equipment


- **Personal protective equipment:**
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of rubber.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** Odourless
- **Melting point / melting range:** 202 - 203 °C
- **Flash point:** not determined
- **Density:**
- **Bulk density:** 400 - 550 kg/m³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 250g/l
- **pH-range:** (25 g/l, 20 °C) 3,8 - 5,3

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Avoid strong heating.
- **Hazardous decomposition products:** Hydrogen chloride, Nitrogen oxides.
- **Additional information:** Light sensitive.

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11 Toxicological information

- **Acute toxicity:**
Pilocarpinhydrochlorid LDLo oral 60 mg man
LD50 (oral, rat) 200 mg/kg
- **Primary irritant effect:**
- **on respiratory organs:** Edema in respiratory tract.

12 Ecological information

- **Aquatic toxicity:**
EC50/48h Daphnia magna: 13,1 mg/l
- **General advices:** Prevent from entering sewage water or drainage ditch undiluted or unneutralized.
Danger for drinking water even if small quantities leak into the ground.
- **Log pOW:** -3,03
- **Water hazard class:** 3 (VwVwS): very hazardous for water.

13 Disposal considerations


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

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Toxic solids, organic, n.o.s., Pilocarpinhydrochlorid
- **Class:** 6.1
- **UN-number:** 2811
- **Packing group:** II
- **Classification code:** T2
- **Limited quantities (Table 3.4.6. ADR):** 0,5 kg
- **Hazard classification number:** 60
- **Special provisions (Chapter 3.3 ADR):** -
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-A
- **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:** GHS06
- **Signal word:** Danger
- **H-Phrases:**

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H300 Fatal if swallowed

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P301 IF SWALLOWED:

P310 Immediately call a POISON CENTER or doctor/physician

• **National regulations (Germany):**

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

• **Storage class TRGS 510:** 6.1A

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.