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

- **Informations to product No. 2176**
- **Product name:**

Chininhydrochlorid
Chinini hydrochloridum
Quinine hydrochloride

- **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
H317 May cause an allergic skin reaction
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

- **P-Phrases:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301 IF SWALLOWED:
P312 Call a POISON CENTER or doctor/physician if you feel unwell
P302 IF ON SKIN:
P352 Wash with soap and water

Acute Tox. 4
Skin Sens.1
Resp Sens.1

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3 Composition / information on ingredients

CAS-No. Substance name

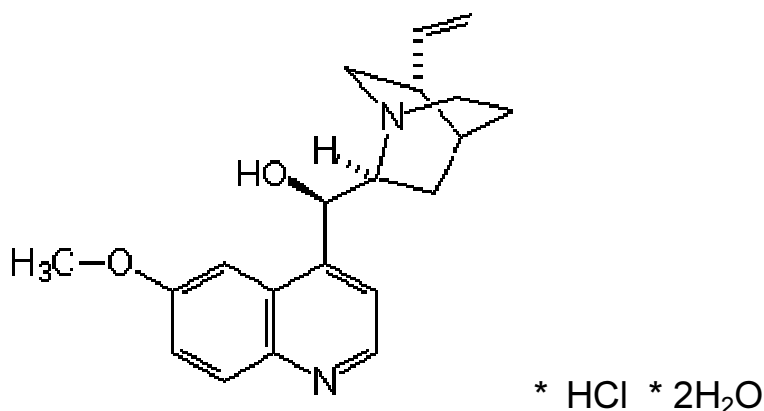
130-89-2 Chininhydrochlorid Dihydrat

• **EINECS-No.:** 205-001-1

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

• **INCI-Name:** -

• **Chemical characterization:**



4 First aid measures


- **after inhalation:** Fresh air. If feeling unwell continuously seek medical advice.
- **after skin contact:** Wash away with plenty of water.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **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:** Combustible but not flammable. In case of fire dangerous gases / vapours can be released: Hydrogen chloride.
- **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:**
- **Advice on safe handling:** wear dust protection mask.
- **Informations to fire or explosion protection:** No special measures required.
- **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:**
Keep away from food, beverages and animal food.
Wash hands before breaks and after work.
- **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:** 123 °C
- **Boiling point / boiling range:** not determined
- **Ignition emperature:** ca. 400 °C
- **Flammability (solid, vapours):** The product is not flammable.
- **Explosion hazard:** The product is not hazardous for explosion, but the explosion of dust-air mixtures is possible.
- **Solubility in / Miscibility with**
- **Water:** 62,5 g/l (25 °C), ca. 2000 g/l (100°C)
- **Ethanol:** ca. 1 g/l (25 °C)
- **Additional information:** Not readily soluble in Ethanol
- **Bulk density:** 310 kg/m³
- **pH-value:** (1 % in water) 6,0 – 6,8

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**
Temperatures above room temperature
- **Materials to avoid:** Strong acids and oxidants
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** Chinotoxine

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11 Toxicological information

- **Acute toxicity:**

RTECS#: CAS# 6119-47-7: Nicht registriert

LD50/LC50: RTECS: Not available. Andere: Oral, mouse: LD50 = 1160 mg/kg, Oral, rat: LD50 = 1160 mg/kg

Carcinogenity: Quinine monohydrochloride dihydrate - Von ACGIH, IARC, NTP, or CA Prop 65 not classified as carcinogene.

- **Sensitization:** Possible allergene effect if inhaled or after skin contact.

12 Ecological information

- **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):**

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

- **Hazard symbols:** GHS07, GHS08

- **Signal word:** Danger

- **H-Phrases:**

H302 Harmful if swallowed

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- **P-Phrases:**

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P301 IF SWALLOWED:


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- **National regulations (Germany):**

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

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• **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.