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

- Informations to product No. 2170
- Product name:

**Chinindihydrochlorid, API**

*Chinini dihydrochloridum*

*Quinine dihydrochloride*

- 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-Labelling Elements:

  - **Signal word:** Danger
  - **H-Phrases:**
    H302 Harmful if swallowed
    H317 May cause an allergic skin reaction
    H334 May cause allergy or asthma symptoms of breathing difficulties if inhaled
  - **P-Phrases:**
    P280 Wear protective gloves/protective clothing/eye protection/face protection
    P301 IF SWALLOWED:
    P313 Get medical advice/attention
    P302 IF ON SKIN:
    P352 Wash with soap and water

**Acute Tox. 4**
**Skin Sens.1**
**Resp Sens.1**
3 Composition / information on ingredients

CAS-No. Substance name
6119-47-7 Quinine dihydrochloride
- EINECS-No.: 231-437-7
- REACH Reg. No.: (pre-registered)
- INCI-Name: -
- Chemical characterization:

\[
\text{H}_3\text{C}=\text{O} \quad \text{N} \quad \text{H}_2\text{N} \quad \text{HCl}
\]

* 2 HCl

4 First aid measures

- **after inhalation:** Fresh air. If feeling unwell continuously seek medical advice.
- **after skin contact:** Wash away with water and soap.
- **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.
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: not determined
· Boiling point / boiling range: not determined
· 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: Readily soluble

10 Stability and reactivity

· Thermical 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

11 Toxicological information

· Acute toxicity:
  · LD50/LC50: RTECS: Not available. Andere: Oral, mouse: LD50 = 1160 mg/kg
  · Carcinogenity: Quinine monohydrochloride dihydrate - Von ACGIH, IARC, NTP, or CA Prop 65 not classified as carcinogene.
· Sensitization: Possible allergene effect.

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: GHS08, GHS07
· Signal word: Danger
· H-Phrases:
H302 Harmful if swallowed
H317 May cause an allergic skin reaction
H334 May cause allergy or asthma symptoms of breathing difficulties if inhaled
· P-Phrases:
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301 IF SWALLOWED:
P313 Get medical advice/attention
P302 IF ON SKIN:
P352 Wash with soap and water
· Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):
The product does not need to be labelled according to GHS-regulations.
· National regulations (Germany):
· Water hazard class: see chapter 12
· 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.