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

· Informations to product No. 2178
· Product name:

Chininsulfat, API  
Chinini sulfas  
Quinine sulfate

· 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:

![Warning symbol]

· Signal word: Warning
· H-Phrases:
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation
· P-Phrases:
P260 Do not breathe dust/fume/gas/mist/vapours/spray  
P301 IF SWALLOWED:  
P313 Get medical advice/attention  
P302 IF ON SKIN:  
P352 Wash with soap and water

Skin Irrit. 2  
Eye Irrit. 2  
STOT SE 3
3 Composition / information on ingredients

CAS-No. Substanzbezeichnung
804-63-7 Quinine sulfate
· EINECS-No.: 212-359-2
· REACH Reg. No.: (pre-registered)
· INCI-Name: -
· Chemical characterization:

\[
\text{HOH} \quad \text{H}_{\text{C-O}} \quad \text{N} \quad \text{H}_{\text{2SO}_4} \quad \text{H}_2\text{O}
\]

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: 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.

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:** ca. 212 °C
- **Boiling point / boiling range:** not determined
- **Flash point:** 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:** 1,23 g/l (20°C), 31,25 g/l (100°C)
  - **pH-range:** 6,2 (1,2g/l)
  - **Additional information:** Not readily soluble in Ethanol
  - **Bulk density:** 170 - 250 kg/m³

10 Stability and reactivity

- **Thermical decomposition / conditions to avoid:**
  Temperatures above room temperature (Decomposition. Product: Cinicine
- **Materials to avoid:** Strong acids and oxidants
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** Chinotoxine
11 Toxicological information

- **Acute toxicity:**
  - LD50 (oral, Mouse): 1100 mg/kg
  - LDLo (oral): 800 mg/kg (mouse)
  - Respiration, contact with skin and eyes: Not determined.
- **Sensitization:** Possible allergenic effect.

12 Ecological information

- **General advice:** 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
- **H-Phrases:**
  - H315 Causes skin irritation
  - H319 Causes serious eye irritation
  - H335 May cause respiratory irritation
- **P-Phrases:**
  - P260 Do not breathe dust/fume/gas/mist/vapours/spray
  - P301 IF SWALLOWED:
  - P313 Get medical advice/attention
  - P302 IF ON SKIN:
  - P352 Wash with soap and water
- **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.