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

- **Informations to product No. 4279**
- **Product name:**

**Clioquinol, API**  
Jodchloroxychinolinum

- **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:** Warning

- **H-Phrases:**

H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation  
H400 Very toxic to aquatic life

- **P-Phrases:**


P261 Avoid breathing dust/fume/gas/mist/vapours/spray  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P305 IF IN EYES  
P351 Rinse continuously with water for several minutes  
P273 Avoid release to the environment

**Skin Irrit. 2**

**Eye Irrit. 2**

**STOT SE 3**

**Aquatic Acute 1**

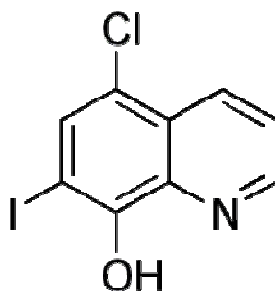
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### 3 Composition / information on ingredients

**CAS-No. Substance name**

130-26-7 Clioquinol

- **EINECS-No.:** 204-984-4
- **REACH Reg. No.:** 01-2119958804-26-0000
- **INCI-Name:** Clioquinol
- **Chemical characterization:**



### 4 First aid measures

- **after inhalation:** Fresh air. Seek medical help in every case.
- **after skin contact:** Wash away with water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open. Seek medical advice immediately.
- **after swallowing:** Do not induce vomiting, seek medical advice immediately.

### 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, iodine vapours, organic halogen 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 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:** During Handling do not eat, drink or smoke.

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- **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:** The usual precaution measures during handling of chemicals are to observe.
- **Respiratory protection:** Dust protection mask
- **Hand protection:** Protection gloves of rubber or latex
- **Eye protection:** Safety glasses

## 9 Physical and chemical properties


- **Form:** solid
- **Colour:** light yellow - brown
- **Odour:** odourless
- **Melting point / melting range:** 178 °C
- **Boiling point / boiling range:** not determined
- **Density:** Bulk density: 0,3 - 0,5 kg/l
- **Solubility in / Miscibility with**
- **Water:** Not readily soluble
- **Additional information:** Light sensitive

## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Avoid heat and moisture. Light sensitive.
- **Materials to avoid:** Metals and strong oxidizers.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** Iodine vapours

## 11 Toxicological information

- **Acute toxicity:**
- LD/LD50-data relevant for hazard classification:**
- LD50(oral,Rat): > 5000 mg/kg
- TDL0(oral,Man): 1400 mg/kg/20d
- **Primary irritant effect:**
- **on skin:** Slightly irritant
- **on eyes:** Strong irritations possible.
- **Additional toxicological informations:** Hazardous in contact with skin and eyes and if inhaled (sensitizing).

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## 12 Ecological information

- **Ecotoxicological effects:**

LC50 Fish, 96h: 0,26 mg/l

The decomposition products are less toxic than the product itself.

- **Water hazard class:** 2 (self classification): hazardous for water.
- **General advices:** Prevent from leaking into ground water, environment waters or drainage.

## 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, GHS09

- **Signal word:** Warning

- **H-Phrases:**

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P305 IF IN EYES

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P273 Avoid release to the environment


- **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.

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· **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.