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# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.02.2024

Version number 3.00 (replaces version 2.00)

Revision: 19.02.2024

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

- · Product identifier
- · Trade name: Clioquinol, API
- · Article number: 4279
- · CAS Number: 130-26-7
- · EC number:
- 204-984-4
- · Registration number The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture
- Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: CAELO Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY
- Further information obtainable from: E-mail: info@caelo.de Tel.: +49210349940 (during regular opening hours)
   Emergency telephone number: Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn Tel: +49 (0) 228-192400

# 2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Acute Tox. 3 H301 Toxic if swallowed.

#### · Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The substance is classified and labelled according to the CLP regulation.
- · Hazard pictograms



· Signal word Danger



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- Hazard statements H301 Toxic if swallowed.
- Precautionary statements
- Wash thoroughly after handling. P264
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P321 Specific treatment (see on this label).
- P330 Rinse mouth.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Determination of endocrine-disrupting properties Not applicable.

#### 3 Composition/information on ingredients

- · Substances
- · CAS No. Description
- CAS: 130-26-7 clioquinol
- · Identification number(s)
- · EC number: 204-984-4

#### 4 First aid measures

- · Description of first aid measures
- · After inhalation:
- Bring the person out of the contaminated area to fresh air.
- Call a doctor immediately.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### 5 Firefighting measures

#### · Extinguishing media

#### Suitable extinguishing agents:

All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

#### Special hazards arising from the substance or mixture

Combustible but not oxidising. In case of fire dangerous vapours/gases can be generated: Smoke gases. toxic organohalogen compounds

iodine vapor



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- · Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- Additional information Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Avoid formation of dust. Avoid contact with the substance.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Take up dry. Clean up with water.
- Dispose contaminated material as waste according to section 13.
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.

# 7 Handling and storage

- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:
- Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: No further information
- Storage class: TRHS 510: 6.1 C Combustible acutely toxic or chronic substances
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection: Dust protection mask.
- · Hand protection Protective gloves
- Material of gloves Rubber gloves Natural rubber, NR

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#### Trade name: Clioquinol, API

(Contd. of page 3) The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

# Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Safety glasses

### 9 Physical and chemical properties

Information on basic physical and chemical pro	perties
· General Information	
Physical state	Solid
Colour:	Yellow-brown
· Odour:	Odourless
Odour threshold:	Not determined.
Melting point/freezing point:	178–179 °C
<ul> <li>Boiling point or initial boiling point and boiling</li> </ul>	
range	365.3 °C
Flammability	Product is not flammable.
• Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
· pH	Not applicable.
· Viscosity:	
Kinematic viscosity	Not applicable.
<sup>·</sup> Dynamic:	Not applicable.
· Solubility	
· water at 24 °C:	4.6 g/l
· Partition coefficient n-octanol/water (log value)	0.1827
<ul> <li>Vapour pressure at 25 °C:</li> </ul>	0 hPa
Density and/or relative density	
· Density at 20 °C:	1.568 g/cm³
· Relative density	Not determined.
· Vapour density	Not applicable.
<ul> <li>Particle characteristics</li> </ul>	Not determined
• Other information	
· Appearance:	
· Form:	Solid
	Solid
<ul> <li>Important information on protection of health</li> <li>and any irrenment, and an activity</li> </ul>	
and environment, and on safety.	Not doto wain od
· Ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
· Change in condition	Nataralizable
· Evaporation rate	Not applicable. (Contd. on

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Trade name: Clioquinol, API

<ul> <li>Information with regard to physical hazard classes</li> </ul>		
· Explosives	Void	
- Elemmobile genera	Void Void	
· Flammable gases	Void Void	
· Aerosols	Void	
	Void	
· Oxidising gases	Void	
	Void	
· Gases under pressure	Void	
Element de l'accide	Void	
· Flammable liquids	Void Void	
· Flammable solids	Void Void	
	Void	
· Self-reactive substances and mixtures	Void	
	Void	
· Pyrophoric liquids	Void	
	Void	
Pyrophoric solids	Void	
	Void	
<ul> <li>Self-heating substances and mixtures</li> </ul>	Void	
Void		
<ul> <li>Substances and mixtures, which emit flammable gases in contact with water</li> </ul>	e Void	
gases in contact with water	Void	
· Oxidising liquids	Void	
	Void	
· Oxidising solids	Void	
-	Void	
· Organic peroxides	Void	
	Void	
· Corrosive to metals	Void	
Decensified explasives	Void Void	
· Desensitised explosives	Void Void	
	voiu	

# 10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid High temperature.
- · Incompatible materials:

Metals

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Oral

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#### Trade name: Clioquinol, API

Strong oxidizing agents

- · Hazardous decomposition products: lodine compounds
- Additional information: Sensitive to moisture

# \*11 Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Toxic if swallowed.
- LD/LC50 values relevant for classification:

LD50 69 mg/kg (mouse)

>5 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Can have a sensitizing effect.
- Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

# **12 Ecological information**

- · Toxicity
- Aquatic toxicity:

LC50 103.74 mg/L (Fish)

EC50 25.215 mg/L (Microorganism)

EC10 4.034 mg/L (Algae)

- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- ·vPvB: Not applicable.
- Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.



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Trade name: Clioquinol, API

The product does not contain substances with e • <b>Other adverse effects</b> • <b>Remark:</b> Very toxic for fish	(Contd. of page 6) endocrine disrupting properties.	
<ul> <li>Additional ecological information:</li> <li>General notes: Water hazard class 2 (German Regulation) (Sel</li> </ul>	lf-assessment): hazardous for water	
Do not allow product to reach ground water, was Danger to drinking water if even small quantities Very toxic for aquatic organisms	ter course or sewage system.	
13 Disposal considerations • Waste treatment methods • Recommendation		
Must not be disposed together with household garbage. Do not allow product to reach sewage system.		
<ul> <li>Uncleaned packaging:</li> <li>Recommendation: Disposal must be made according to the second secon</li></ul>	cording to local regulations.	
·		
14 Transport information		
· UN number or ID number · ADR, IMDG, IATA	UN2811	
· UN proper shipping name · IMDG	TOXIC SOLID, ORGANIC, N.O.S. (clioquinol)	
· IATA · Transport hazard class(es)	Toxic solid, organic, n.o.s. (clioquinol)	
ADR, IMDG, IATA		
Class	6.1 Toxic substances.	
· Label	6.1	
· Packing group · ADR, IMDG, IATA	III	
Environmental hazards:	Not applicable.	
<ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> </ul>	Warning: Toxic substances.	
· EMS Number:	F-A,S-A	
· Maritime transport in bulk according to IMO		
instruments	Not applicable.	
· Transport/Additional information:		
· ADR	<b>5</b> h -	
<ul> <li>Limited quantities (LQ)</li> <li>Transport category</li> </ul>	5 kg 2	
· Tunnel restriction code	E	
·IMDG		
· Limited quantities (LQ)	5 kg (Contd. on page 8)	

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#### · UN "Model Regulation":

(Contd. of page 7) UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (CLIOQUINOL), 6.1, III

#### <sup>\*</sup>15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII Not listed
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II Substance is not listed.

· National regulations:

- Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 6.1 C Combustible acutely toxic or chronic substances
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- Reasons for alterations This version replaces all old versions.
- · Date of previous version: 22.03.2023
- · Version number of previous version: 2.00

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark) LC50: Lethal concentration, 50 percent

- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- Acute Tox. 3: Acute toxicity Category 3
- \* \* Data compared to the previous version altered.