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#### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 27.04.2022

Version number 2.00

Revision: 27.04.2022

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

- · Product identifier
- · Trade name: Hydroquinone
- · Article number: 4272
- · CAS Number:
- 123-31-9
- · EC number:
- 204-617-8
- Index number:
- 604-005-00-4
- **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
- · 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. 4 H302 Harmful if swallowed.
- Eye Dam. 1 H318 Causes serious eye damage.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Muta. 2 H341 Suspected of causing genetic defects.
- Carc. 2 H351 Suspected of causing cancer.

Aquatic Acute 1 H400 Very toxic to aquatic life.

#### · Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

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Page 2/8 Safety data sheet according to 1907/2006/EC, Article 31 Printing date 27.04.2022 Version number 2.00 Revision: 27.04.2022 Trade name: Hydroquinone (Contd. of page 1) · Hazard pictograms GHS05 GHS07 GHS09 GHS08 · Signal word Danger · Hazard statements H302 Harmful if swallowed. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. **Precautionary statements** P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P310 P321 Specific treatment (see on this label). P330 Rinse mouth. P362+P364 Take off contaminated clothing and wash it before reuse. 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.

#### 3 Composition/information on ingredients

#### · Chemical characterisation: Substances

- · CAS No. Description 123-31-9 1,4-dihydroxybenzene
- · Identification number(s)
- · EC number: 204-617-8
- · Index number: 604-005-00-4
- · INCI-Name Hydroquinone

#### 4 First aid measures

#### Description of first aid measures

After inhalation:

Bring the person out of the contaminated area to fresh air.



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(Contd. of page 2) Call a doctor immediately. Show product-label or this MSDS. After skin contact: Take off contaminated clothes and shoes, wash immediately with plenty of water and soap. After eye contact: Rinse opened eye for several minutes under running water. Seek medical advice, even if no immediate symptoms are observed. · After swallowing: Rinse out mouth and then drink plenty of water. Call for a doctor immediately. · Information for doctor: 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. In case of fire dangerous vapours/gases can be generated: Smoke gases. 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 item 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

· Handling:

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Provide eye rinsing kit.



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(Contd. of page 3) Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

- 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: Store receptacle in a well ventilated area.
- Store in the dark.
- · Storage class: TRHS 510: 13 non-combustible solids
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 123-31-9 1,4-dihydroxybenzene

WEL (Great Britain) Long-term value: 0.5 mg/m<sup>3</sup> MAK (Germany) als Dampf und Aerosol

- · Exposure controls
- · 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.

- · Protection of hands: Protective gloves
- Material of gloves

Nitrile rubber. NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of guality 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.

- · Eve protection: Safety glasses
- · Body protection: Protective work clothing

#### 9 Physical and chemical properties

#### · Information on basic physical and chemical properties · General Information · Appearance: Form: Crystalline Colour: Colourless · Odour: Nearly odourless · Odour threshold: Not determined. · pH-value: Not applicable.

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#### Trade name: Hydroquinone

<ul> <li>Change in condition</li> <li>Melting point/freezing point:</li> <li>Initial boiling point and boiling range</li> </ul>	172.3 °C 286.8 °C
· Flash point:	165 °C
· Flammability (solid, gas):	Product is not flammable.
· Ignition temperature:	515 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapour pressure:	0 hPa
<ul> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	1.328 g/cm³ Not determined. Not applicable. Not applicable.
<ul> <li>Solubility in / Miscibility with water at 25 °C:</li> </ul>	72 g/l
· Partition coefficient: n-octanol/water:	-0.22915
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.
· Other information	No further relevant information available.

#### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- **Thermal decomposition / conditions to be avoided:** Processing temperature over 5 °C.
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions Reacts with strong oxidising agents.
- $\cdot$  Conditions to avoid No further relevant information available.
- Incompatible materials: Alkalis
- Strong oxidizing agents · Hazardous decomposition products: Irritant gases/vapours



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#### Trade name: Hydroquinone

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#### 11 Toxicological information

#### Information on toxicological effects

- Acute toxicity
- Harmful if swallowed.

#### · LD/LC50 values relevant for classification:

Oral LD50 367 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rabbit)

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation
- Causes serious eye damage.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity
- Suspected of causing genetic defects.
- · Carcinogenicity
- Suspected of causing cancer.
- · 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.

#### **12 Ecological information**

#### · Toxicity

- Aquatic toxicity:
- LC50 0.638 mg/L (Fish)
- EC50 0.33 mg/L (Algae)
  - 0.134 mg/L (invertebrates)
  - 71 mg/L (Microorganism)
- EC10 0.019 mg/L (Algae)

0.0057 mg/L (invertebrates)

58 mg/L (Microorganism)

- · Persistence and degradability Easily biodegradable
- Behaviour in environmental systems:
- · Bioaccumulative potential Does not accumulate in organisms
- Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Very toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.



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GB •

#### Trade name: Hydroquinone

Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even extremely small quantities leak into the ground. Very toxic for aquatic organisms

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to local regulations.

#### 14 Transport information · UN-Number · ADR, IMDG, IATA UN3077 · UN proper shipping name · ADR 2811 TOXIC SOLID, ORGANIC, N.O.S. (1,4dihydroxybenzene), ENVIRONMENTALLY HAZARDOUS ·IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,4-dihydroxybenzene) ·IATA Environmentally hazardous substance, solid, n.o.s. (1,4dihydroxybenzene) · Transport hazard class(es) · ADR, IMDG, IATA Class 9 Miscellaneous dangerous substances and articles. · Label 9 · Packing group · ADR, IMDG, IATA Ш · Environmental hazards: · Marine pollutant: Symbol (fish and tree) Special marking (ADR): Symbol (fish and tree) · Special marking (IATA): Symbol (fish and tree) · Special precautions for user Warning: Miscellaneous dangerous substances and articles. · Hazard identification number (Kemler code): 90 · EMS Number: F-A,S-F · Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · ADR Limited quantities (LQ) 5 kg · Transport category 3 (Contd. on page 8)



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· Tunnel restriction code	<u>.</u>	(Contd. of page 7
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> </ul>	5 kg	
15 Regulatory information		
	ental regulations/legislation specific for t IECT TO AUTHORISATION (ANNEX XIV) 1006 ANNEX XVII Not listed	
TRHS 510: 5.1 C Ammonium n	<b>nces in in nonstationary vessels (TRGS</b> itrate and mixtures containing ammonium r A Chemical Safety Assessment has not be	nitrate
16 Other information		
The information provided is bas exclusively for this product inter	ed on our current level of knowledge. This nded.	MSDS has been compiled and i
	version replaces all old versions.	
International Carriage of Dangerous G IMDG: International Maritime Code for	ational des marchandises dangereuses par route (Eur	ropean Agreement Concerning the
IATA: International Air Transport Asso	Dangerous Goods	
EINECS: European Inventory of Existin	Dangerous Goods ciation Classification and Labelling of Chemicals ng Commercial Chemical Substances	
GHS: Globally Harmonised System of EINECS: European Inventory of Existin CAS: Chemical Abstracts Service (divi MAL-Code: Måleteknisk Arbejdshygiej LC50: Lethal concentration, 50 percen	Dangerous Goods ciation Classification and Labelling of Chemicals ng Commercial Chemical Substances sion of the American Chemical Society) nisk Luftbehov (Regulation for the labeling concerning	inhalation hazards, Denmark)
GHS: Globally Harmonised System of EINECS: European Inventory of Existin CAS: Chemical Abstracts Service (divi MAL-Code: Måleteknisk Arbejdshygjej LC50: Lethal concentration, 50 percen LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and vPvB: very Persistent and very Bioacc	Dangerous Goods ciation Classification and Labelling of Chemicals ng Commercial Chemical Substances sion of the American Chemical Society) nisk Luftbehov (Regulation for the labeling concerning t Toxic umulative	inhalation hazards, Denmark)
GHS: Globally Harmonised System of EINECS: European Inventory of Existin CAS: Chemical Abstracts Service (divi MAL-Code: Måleteknisk Arbejdshygiej LC50: Lethal concentration, 50 percen LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and vPvB: very Persistent and very Bioacc Acute Tox. 4: Acute toxicity – Category Eye Dam. 1: Serious eye damage/eye	Dangerous Goods ciation Classification and Labelling of Chemicals ng Commercial Chemical Substances sion of the American Chemical Society) nisk Luftbehov (Regulation for the labeling concerning t Toxic umulative 4 irritation – Category 1	inhalation hazards, Denmark)
GHS: Globally Harmonised System of EINECS: European Inventory of Existin CAS: Chemical Abstracts Service (divi MAL-Code: Måleteknisk Arbejdshygiej LC50: Lethal concentration, 50 percen D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and vPvB: very Persistent and very Bioacc Acute Tox. 4: Acute toxicity – Category Eye Dam. 1: Serious eye damage/eye Skin Sens. 1: Skin sensitisation – Cate Muta. 2: Germ cell mutagenicity – Cate	Dangerous Goods ciation Classification and Labelling of Chemicals ng Commercial Chemical Substances sion of the American Chemical Society) nisk Luftbehov (Regulation for the labeling concerning t Toxic umulative 4 irritation – Category 1 gory 1	inhalation hazards, Denmark)
GHS: Globally Harmonised System of EINECS: European Inventory of Existii CAS: Chemical Abstracts Service (divi MAL-Code: Måleteknisk Arbejdshygjej LC50: Lethal concentration, 50 percen LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and vPvB: very Persistent and very Bioacc Acute Tox. 4: Acute toxicity – Category Eye Dam. 1: Serious eye damage/eye Skin Sens. 1: Skin sensitisation – Cate Muta. 2: Germ cell mutagenicity – Category 2	Dangerous Goods ciation Classification and Labelling of Chemicals og Commercial Chemical Substances sion of the American Chemical Society) nisk Luftbehov (Regulation for the labeling concerning t Toxic umulative 4 irritation – Category 1 egory 1 egory 2 atic environment - acute aquatic hazard – Category 1	