

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

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HYDROCHINONUM

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Hydroquinone
Hydrochinonum
Hydrochinon
Hydroquinone
Hydrochinon
N° CAS: 123-31-9
N° EC: 204-617-8

1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses: Active Pharmaceutical Ingredient or Excipient.

1.3 Details of the supplier of the safety data sheet

Company: FAC SECUNDUM ARTEM NV
Oostmalsebaan 1c (unit 5)
2960 Sint-Lenaarts
Belgium
Telephone: (+32) (0)3 457 11 76
Email: info@magis-pharma.be
Web page: www.magis-pharma.be

1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

Classification according to (EC) n° 1272/2008

Acute Tox. 4	H302
Carc. 2	H351
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Acute 1	H400
Muta. 2	H341

2.2 Label elements

Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Danger
Irritant , Corrosive, Harmful, Harmful to the environment

Hazard statements:
H302 Harmful if swallowed.

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H351	Suspected of causing cancer.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H341	Suspected of causing genetic defects.
Precautionary statements:	
P309+P311	IF exposed or if you feel unwell: Call a POISON CENTRE or doctor.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P391	Collect spillage.
Additional applicable label elements:	Not applicable.

2.3 Other hazards

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product name:	Hydroquinone
IUPAC name:	1,4-Benzenediol
Synonyms:	Quinol 1,4-dihydroxybenzene p-Benzenediol
N° CAS:	123-31-9
N° EC:	204-617-8
Molecular Formula:	$C_6H_6O_2$
Content:	Hydroquinone contains not less than 99.0 percent and not more than 100.5 percent of $C_6H_6O_2$, calculated on the anhydrous basis.

3.2 Mixtures

It contains no other components or impurities that may influence the classification of the product.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes:	Consult a doctor. Show the safety data sheet to the doctor on duty.
After inhalation:	Take to fresh air. If breathing is irregular, call a doctor immediately. Only give artificial respiration if breathing stops or under medical supervision.
After skin contact:	Wash immediately with plenty of soap and water for at least 15 minutes. Remove all contaminated clothing immediately. Get medical attention if irritation develops and persists.
After eye contact:	Remove contact lenses and rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. Get medical attention.

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After ingestion: If conscious, give the victim plenty of water to drink. Never give anything by mouth to an unconscious person. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Not available.

4.3 Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam, dry powder, carbon dioxide, sand, water mist.
Neighbouring fires (containers exposed to fire): Water spray or fog.
Unsuitable extinguishing media: Direct water jet.

5.2 Special hazards arising from the substance/mixture

Vapours emitted during combustion are heavier than air. Possible formation of explosive mixtures with air. Risk of dust explosion. Possibility of formation of dangerous vapours due to fire in the environment.

5.3 Advice for firefighters

Surrounding fires: Cool tanks, cisterns or containers near the source of heat or fire with water. Take wind direction into account. Prevent products used in fire fighting from entering drains, sewers or watercourses.
Protection against fire: Depending on the size of the fire, heat protection suits, self-contained breathing apparatus, gloves, goggles or face masks and boots may be required.
Hazardous combustion products: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid formation of dust. Avoid contact with the substance. Proceed with ventilation in enclosed areas. Wear suitable protective equipment (including personal protective equipment detailed under heading 8) to avoid contamination of skin, eyes and persons.

For emergency responders

Wear suitable protective equipment (including personal protective equipment detailed under heading 8) to avoid contamination of skin, eyes and persons.

6.2 Environmental precautions

In case of large spills or if the product contaminates lakes, rivers or sewers, inform the competent authorities according to local legislation. Avoid contamination of drains, surface or ground water and soil.

6.3 Methods and material for containment and cleaning up

Collect the product dry, avoiding the formation of dust. The contaminated area should be cleaned immediately with a suitable decontaminant. Pour the decontaminant on the residues and leave it for several days until no reaction occurs, in an unsealed container.

6.4 Reference to other sections

For exposure control and personal protective measures, see section 8.
For waste disposal, follow the recommendations in section 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling:	Protect from light and do not inhale the substance.
Personal protection:	For personal protection see section 8.
Technical protective measures:	Work under a fume cupboard.
Handling:	Not available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:	Preserve in tight, light-resistant containers.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed in a cool and dry place.
Storage – away from:	Keep protected from light.

7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

VLA-ED: 2 mg/m³

8.2 Exposure controls

Appropriate engineering control

Since the use of appropriate technical measures should always take precedence over personal protective equipment, ensure good ventilation at the workplace by effective local suction. When choosing personal protective equipment, ask your chemical suppliers if this is necessary. Personal protective equipment must be CE-marked for compliance with applicable regulations. Provide an emergency shower with a viscoelastic tray.

Individual protection measures

Eye/face protection:	Protective face shields and safety goggles according to EN166.
Skin protection:	Choose body protection according to the quantity and concentration of the hazardous substance in the workplace.
Hand protection:	Handle with gloves. The selected protective gloves must comply with the specifications of EU Directive 89/686/EEC and the derived EN 374 standard.
Respiratory protection:	We recommend the use of a P-type filter mask (EN 149) or equivalent device, whose class (1, 2 or 3) and actual need will be determined by the outcome of the risk assessment.
Thermal hazards:	Not determined.

Environmental exposure control

Emissions from production processes, including those from ventilation equipment, must be monitored for compliance with environmental protection standards. Product residues should not be discharged uncontrolled into drains or waterways. For information on environmental exposure control, refer to the exposure scenarios attached to this Safety Data Sheet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Colourless to white solid.
Odour:	Almost odourless.
Odour threshold:	Not available.

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pH:	(7 %): ~ 3.75
Melting/freezing point:	172 °C
Initial boiling point:	287 °C
Boiling range:	Not available.
Flash point:	165 °C
Evaporation rate:	Not available.
Flammability (solid/gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	0.503 g/mL (20 °C)
Solubility:	Freely soluble in alcohol an in ether. Slightly soluble in benzene.
Solubility in water:	70 g/L (20 °C)
Partition coefficient (n-octanol/water):	Log Pow 0.59
Auto-ignition temperature:	515 °C
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidising properties:	Not available.

9.2 Other information

Molecular weight: 110.11 g/mol

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No special conditions. Stable under the recommended handling and storage conditions (see section 7).

10.2 Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions

Dust explosion possible. Explosive mixtures with air may occur in case of strong heating. Sublimable. Energy reducing.

10.4 Conditions to avoid

Avoid heating. Sensitive to light.

10.5 Incompatible materials

Strong oxidising agents. Alkaline hydroxides. Aluminium. Oxygen. Sodium hydroxide.

10.6 Hazardous decomposition products

Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Acute oral toxicity (LD50, rat): 302 mg/kg Acute oral toxicity (LCLo, man): 29 mg/kg
Skin corrosion/irritation:	Causes skin irritation.

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Serious eye damage/irritation:	Causes eye irritation (corneal disorder).
Respiratory/skin sensitisation:	Risk of skin sensitisation.
Germ cell mutagenicity:	Suspected of causing genetic defects in humans.
Carcinogenicity:	Not available.
Reproductive toxicity:	Category 1A: May cause harm to fertility or harm to the unborn child.
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	Not available.
STOT-repeated exposure:	Not available.
Aspiration Hazard:	Irritation of mucous membranes.
Other:	Signs and Symptoms of Exposure: Coughing. Difficulty breathing. Pulmonary oedema. Corneal disorder. There are no known health related events due to exposure to the product. In any case, it is recommended to comply with the rules of good industrial hygiene.

11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:	May cause eye irritation.
Skin contact:	Harmful if absorbed through skin. May cause skin irritation.
Inhalation:	Harmful if inhaled. May cause respiratory tract irritation.
Ingestion:	Harmful if swallowed.
Aspiration:	Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

EC ₅₀ (fish):	0.2 mg/L (<i>Leuciscus idus</i>)
LC ₅₀ (fish):	0.044 mg/L/96 hours (<i>P. promelas</i>)
EC ₅₀ (crustaceans):	0.29 mg/L/48 hours (<i>Daphnia magna</i>)
EC ₅₀ (bacteria):	0.038 mg/L/30 minutes (<i>Photobacterium phosphoreum</i>)

12.2 Persistence and degradability

Medium biodegradability.

12.3 Bioaccumulative potential

Bioaccumulation of the product is not expected.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

Not available.

12.6 Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

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13.1 Waste treatment methods

Product: Consider all federal, state and local environmental regulations. Contact a licensed professional waste disposal service for disposal of this material. Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated container: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

Transport information according to ADR/RID/IMDG/ICAO/IATA

14.1 UN Number

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : 3077

14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS HYDROQUINONE)
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS HYDROQUINONE)
IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS HYDROQUINONE)

14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : 9

14.4 Packing group

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : III

14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : ADR/RID: Dangerous for the Environment
IMDG: Marine Pollutant
IATA: Dangerous for the environment

14.6 Special precautions for user

Not available.

14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

14.8 Additional transport information

The product is classified according to the hazardous materials conventions.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance/mixture

Hazard symbol:



Risk phrases:

Irritant, Harmful, Corrosive, Harmful to the environment
R22 Harmful if swallowed.
R40 Limited evidence of a carcinogenic effect.
R41 Risk of serious damage to eyes.

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Safety phrases:

R43 May cause sensitisation by skin contact

R50 Very toxic to aquatic organisms.

R68 Possible risk of irreversible effects.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

15.2 Chemical safety assessment

A chemical safety assessment of the product has not been carried out.

SECTION 16: OTHER INFORMATION

16.1 Changes since the previous version

Not applicable.

16.2 Abbreviations and acronyms used

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC (number):	European Community (number)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

16.3 Key literature references/sources for data

European Chemicals Agency.

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

16.4 Method of classification in case of mixture

Not applicable.

16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

16.6 Training advisement

Not available

16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation

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(EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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16.8 Department issuing MSDS

Quality Department

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