

SAFETY DATA SHEET (SDS)

Hydroquinone

Version: 1.01-EN Creation

Date: 2025-09-01

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

Product identifier

Product name: Hydroquinone
Alternative name (s): 1,4-Dihydroxybenzene; 1,4-Benzenediol
CAS No.: 123-31-9
Molecular Formula: C₆H₆O₂

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Laboratory chemicals, Industrial & for professional use only.
Uses advised against: Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company Name: Qualitron Chemicals
Address: 312, Industrial Estate, G.I.D.C. Panoli 394116,
Dist. Bharuch, Gujarat, India
Phone: +91 93777 02792 , +91 93777 02791
E-mail: info@qualitron.net

Emergency telephone number

Emergency Phone #: +91 93777 02792

SECTION 2: Hazards identification

Emergency Overview

Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.

GHS Classification

Acute toxicity (Oral): Category 4
Serious eye damage/eye irritation: Category 1
Skin sensitization: Category 1
Germ cell mutagenicity: Category 2

Carcinogenicity: Category 2

Short-term (acute) aquatic hazard: Category 1 **Long-**

term (chronic) aquatic hazard: Category 1 **Hazard**

Pictogram:



Signal Words:

DANGER!

Hazard Statement(s):

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction. H318

Causes serious eye damage.

H341 Suspected of causing genetic defects. H351

Suspected of causing cancer.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a

POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of water. P305 +

P351 + P338 + P310 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. P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P391 Collect spillage.

P405 Store locked up.

Storage:

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3: Composition/information on ingredients

Chemical name

CAS No.

Concentration (% w/w)

SECTION 4: First aid measures

General advice:	If symptoms persist, call a physician.
In case of eye contact:	Flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
In case of skin contact:	Rinse skin with water/shower. In case of skin reactions, consult a physician.
If inhaled:	Move to fresh air. Get medical attention if symptoms persist.
If swallowed:	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects:	Causes eye burns. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.
Protection of first-aiders:	For personal protection
Notes to physician:	Treat symptomatically

SECTION 5: Firefighting measures

Suitable extinguishing media:	Water, Foam, Carbon dioxide (CO ₂), Dry powder
Unsuitable extinguishing media:	For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards during fire fighting:	Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire. Carbon oxides
Hazardous combustion products:	
Specific extinguishing methods:	Prevent fire extinguishing water from contaminating surface water or the ground water system.
Special protective equipment for fire-fighters:	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: For personal protection see section 8.
Environmental precautions:	Do not let product enter drains.
Methods and materials	Cover drains. Collect, bind, and pump off spills.



for containment and cleaning up :

Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7: Handling and storage

Handling:

Wear personal protective equipment/face protection.
Provision of sufficient ventilation. Avoid dust formation
Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage:

Store in a dry and well-ventilated place. Keep away from fire and heat sources.
Keep container closed. Air sensitive.
Keep away from reducing agents, anhydrides, alkalis, strong oxidants and food.
Be equipped with corresponding types and quantities of fire-fighting equipment.
Be equipped with appropriate materials to contain the leaked substances.

SECTION 8: Exposure controls/personal protection Occupational

Exposure Limits

Maximum admissible concentration: No data available

TWA: 1 mg/m³

STEL: 2 mg/m³

Personal protective equipment

Respiratory Protection: Respiratory protection necessary at: Dust formation, wear a self-priming filtering dust mask. In case of emergency rescue or evacuation, an air respirator should be worn.

Eye/face protection: Use safety goggles with side protection.

Body Protection: Wear anti-toxic substance penetration work clothes.

Hand protection: Wear rubber gloves

SECTION 9: Physical and chemical properties

Appearance: Off-white solid

Odor: No data available

Odor Threshold: No data available

pH: 3.7

Melting point: 171 °C

Boiling point: 287 °C

Flash point: 165 °C

Upper explosion limit / Upper flammability limit: No data available

Lower explosion limit / Lower flammability limit:	No data available
Vapor pressure:	1 hPa (132 °C)
Relative vapor density:	3.80(Air=1.0)
Density:	1.332 g/cm ³ (15 °C)
Bulk density:	ca. 600 kg/m ³
Water solubility:	72 g/L completely soluble(25 °C)
Partition coefficient: n-octanol/water:	0.59
Autoignition temperature:	516 °C
Decomposition temperature:	No data available

SECTION 10: Stability and reactivity

Chemical stability:	The material is stable under normal conditions.
Reactivity:	Forms explosive mixtures with air on intense heating. It can be oxidized into quinone when exposed to air. It reacts vigorously with alkali and strong oxidants.
Conditions to avoid:	Strong heating
Incompatible Materials:	Strong oxidizing agents Strong bases Alkaline
Hazardous Decomposition Products:	Carbon Dioxide. Carbon Monoxide.

SECTION 11: Toxicological information Information on toxicological effects

Component	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation)
Hydroquinone	367 mg/kg(Rat)	74800 mg/kg(Rat)	No data available

Skin corrosion/irritation:	Human transdermal: 2%, mild irritation; 5%, severe stimulation.
Serious eye damage/eye irritation:	Category 1
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	Suspected of causing cancer.
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available

SECTION 12: Ecological information

Ecotoxicity:		LC ₅₀ =0.1-0.18 mg/L(Pimephales promelas) EC ₅₀ =0.29 mg/L (48h) (Water flea) EC ₅₀ =0.335 mg/L (72h) (Pseudokirchneriella subcapitata)
Persistence	and	There is a possibility of biodegradation.
Bioaccumulation/ Accumulation:		No data available
Mobility:		Will likely be mobile in the environment due to its water solubility.

SECTION 13: Disposal considerations

Product:	Dispose of waste and residues in accordance with local authority.
Contaminated packaging:	Dispose of waste and residues in accordance with local authority.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
UN-No	UN3077	UN3077	UN3077
Technical Name	hydroquinone	hydroquinone	hydroquinone
Hazard Class	9	9	9
Packing Group	III	III	III

Further information

Before transportation, it is necessary to check whether the packaging containers are intact and sealed. During transportation, it is essential to ensure that the containers do not leak, collapse, fall or get damaged. It is strictly prohibited to transport together with acids, oxidants, food and food additives. During transportation, it should be protected from exposure to sunlight, rain and high temperatures.

SECTION 15: Regulatory information National

regulatory information

Component	EINECS	TSCA	DSL	IECSC	PICCS	KECI	AICS
Hydroquinone	Listed						

EINECS	European Inventory of Existing commercial Chemical Substances
TSCA	US Toxic Substances Control Act
DSL	Canadian Domestic Substances List
IECSC	Inventory of Existing Chemical Substances in China
PICCS	Philippine Inventory of Chemicals and Chemical Substances
KECI	Korean Toxic Substances Control Act
AICS	Australian Inventory of Chemical Substances

SECTION 16: Other information

Revision Information

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Reasons for revision:	New SDS

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.