



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : H 10725
Product Name : HYDROQUINONE

Manufacturer / supplier identification

Company : NICE Chemicals (P) Ltd. , Cochin , India
Tel - 0484 2800212 , 2802755

Contact For Information: Tel . No. – 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms : 1,4-Dihydroxybenzene, Quinol

CAS-No	: 123-31-9	EC-Index-No.	: 604-005-00-4
Molar mass	: -----	M	: 110.11 g/mol
Molecular Formula	: -----	EC –No.	: 204-617-8
Chemical formula	: C ₆ H ₄ (OH) ₂	Formula Hill	: C ₆ H ₆ O ₂

3. HAZARDS IDENTIFICATION : Harmful if swallowed . Limited evidence of a carcinogenic effect.
Risk

of serious damage to eyes. May cause sensitisation by skin contact. Very toxic to aquatic organisms. Possible risks of irreversible effects.

4. FIRST AID MEASURES: After skin contact: wash off with plenty of water. Remove contaminated clothing.
After eye contact : rinse out with plenty of water with the eyelid held wide open . Summon eye specialist.
After inhalation: fresh air.
After swallowing : make victim drink plenty of water, induce vomiting,.
Summon doctor.



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5. FIRE – FIGHTING MEASURES : Suitable extinguishing media : Powder, foam, CO₂, water.

Special risks : Combustible. Danger of dust explosion. Development of hazardous combustion gases or vapours possible in the event of fire.

Special protective equipments for fire fighting: Do not stay in dangerous zone without self-contained breathing apparatus.

Other information: Prevent fire-fighting water from entering surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES: Person -related precautionary measures: Avoid generation of dusts; do not inhale dusts. Avoid substance contact.

Environmental –protection measures :

Do not allow to enter sewerage system .

Procedures for cleaning/absorption: Take up dry. Forward for disposal.

Clean up effected area.

7. HANDLING AND STORAGE : Handling : Notes for safe handling: Work under hood. Do not inhale substance. Protect from light. Keep hermetically sealed.

Storage : Tightly closed . Dry. Protect from light. At + 15° C to + 25°C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment :

Respiratory protection : Required when dusts are generated.

Eye protection : Required

Hand protection : Required



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Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene : Immediately change contaminated clothing. Apply skin –protective barrier cream . Wash hands and face after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid
Colour	:	Colourless to white
Odour	:	Almost odourless
pH value at 70g/l H ₂ O (20°C)	:	3.75
Melting temperature	:	172° C
Boiling temperature	:	287° C
Ignition temperature	:	516° C
Flash point	:	165° C c.c.
Explosion limits lower	:	Not available
Upper	:	Not available
Vapour pressure (132°C)	:	1.3 hPa
(65 °C)	:	0.13 hPa
Density (20° C)	:	1.35 g/cm ³
Bulk density	:	600 kg/m ³
Solubility in water(25°C)	:	70 g/l
Ethanol (20° C)	:	Freely soluble
Ether (20 °C)	:	Freely soluble
Thermal decomposition	:	> 170° C
Log P(oct):	:	0.59



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10. STABILITY AND REACTIVITY : Conditions to be avoided : Heated.
Substance to be avoided : Strong oxidizing agents, alkalis.
Hazardous decomposition products : No information available.

Further information : Light –sensitive; sublimable ; strong reducing agent:
Dust explosion possible ; Explosible with air in a vapours/gaseous state
when heated.

11. TOXICOLOGICAL INFORMATION : Acute toxicity : LD₅₀ (oral, rat) : 320 mg/kg
LC₅₀(oral, human) : 29 mg/kg.

Subacute to chronic toxicity :
The carcinogenic potential requires further clarification. Possible mutagenic effect in humans. The suspicion is based on proven damage to the genetic material in the somatic cells of man and animal and requires further clarification.

Further toxicological information :
After skin contact : Slight irritations. Risk of skin sensitisation.
After eye contact : Risk of serious damage to eyes. Risk of corneal clouding.
After inhalation : Irritations of the mucous membranes, coughing, and dyspnoea.
Possible damages : Pulmonary oedema (latency time until onset of action.).

After swallowing :
Nausea, vomiting, diarrhoea, dyspnoea, cyanosis, collapse.

Further data : The product should be handled with the care usual when dealing with chemicals.



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12. ECOLOGICAL INFORMATION

Biologic degradation : Readily biodegradable(reduction : DOC > 70% ;
BOD >60%; BOD 5 to COD >50%).

Behavior in enviorinmental compartmens:

Distribution: Log P(o/w): 0.59;

No bioaccumulation is to be expected (logP(o/w <1).

Ecotoxic effects : Biological effects : Highly toxic for aquatic organisms. High aquatic toxicity. Formation of health –hazardous mixtures possible with water. Hazard for drinking water supplies.

Fish toxicity : L.idus LC₅₀ : 0.15 mg/l; Br. Rerio LC₅₀ : 0.17 mg/l;

Bacterial toxicity : Ps.putida EC₀: 58 mg/l; E.coli EC₀: 50 mg/l;

Daphnia toxicity : Daphnia magna LC₅₀ : 0.1 mg/l;

Algeal toxicity : Sc.quadricauda EC₀: 0.93 mg/l;

M. aeruginosa EC₀ : 1.1 mg/l ;

Protozoa : E.sulcatum EC₀: 11 mg/l;

Further ecologic data : BOD : 0.62 g/g ;

TOD : 1.89 g/g ; BOD 25 % from TOD/5 d;

Do not allow to enter waters, waste water, or soil.

13. DISPOSAL METHOD

Chemicals must be disposed of in compliance with the respective national regulations. Under [www. retrologestik. De](http://www.retrologistik.de) you will find country- and substance-specific information as well as contact partners.

Nice product packaging must be disposed of in compliance with the country - specific regulations or must be passed to a packaging return system. Under [www. retrologistik.de](http://www.retrologistik.de) you will find special information on the respective national conditions as well as contact partners.



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14. TRANSPORT INFORMATION

Transport over land

ADR/RID and GGVS/GGVE

GGVS/GGVE class	:	6.1	Number and letter	:	14c
ADR/RID class	:	6.1	Number and letter	:	14c
Name of material	:	HYDROCHINON			

Sea transport IMDG	:	IMDG class	:	6.1	UN-No.	:	2662	Packaging group	:	111
		EMS	:	6.1-0	MFAG	:	710			
		Correct technical name	:	HYDROQUINONE						

Air transport ICAO-TI and IATA-DGR	:	ICAO/IATA class:	6.1	UN/ID-No.:	2662	Packaging group	:	111
		Correct technical name	:	HYDROQUINONE				

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol	:	Xn	Harmful
		N	Dangerous for the environment.
R-phrases	:	22-40-41-43-50-68	Harmful if swallowed. Limited evidence of a carcinogenic effect. Risk of serious damage to eyes. May cause sensitisation by skin contact . Very toxic to aquatic organisms. Possible risks of irreversible effects.
S-phrases	:	26-36/37/39-61	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable Protective clothing, gloves and eye /face protection. Avoid release to the environment. Refer to special instructions/ safety data sheets.



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EC-No. : 204-617-8 EC label

Water pollution class : ----

16. OTHER INFORMATION

Change in labelling.

Change/addition in the chapter 8. Specific control parameter.

General update.

Regional representation :

The information is given on the authorised Safety Data Sheet for your country.

The information contained here in is based on the present state of our knowledge.
It characterizes the product with regard to the appropriate safety precautions. It
does not represent a guarantee of the properties of the product.
