



1351 Hydroquinone

1. Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation

Name:

Hydroquinone

Synonym:

1,4-Benzenediol, 1,4-Dihydroxybenzene

REACH Registration Number: 01-2119524016-51-XXXX

1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

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(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

2. Identification of dangers

Classification of the substance or the mixture.

Classification Regulation (CE) nº 1272/2008.

Acute Tox. 4

Carc. 2

Eye Dam. 1

Skin Sens. 1

Muta. 2

Aquatic Acute 1

Hazard Pictograms



Signal word

Danger

Hazard statements

H302 Harmful if swallowed.

H351 Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400 Very toxic to aquatic life.

Precautionary statements

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash...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.

Classification (67/548/CEE or 1999/45/CE).

N Dangerous for the environment	R43
Xn Harmful	R41
	R40
	R22
	R68
	R50

For the full text of the R-phrases mentioned in this section, see section 16.

3. Component Composition/Information

Name: Hydroquinone

Formula: $C_6H_4(OH)_2$ M.= 110,11 CAS [123-31-9]

EC number (EINECS): 204-617-8

EC index number: 604-005-00-4

REACH Registration Number: 01-2119524016-51-XXXX

4. First aid

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Take the person out into the fresh air.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4 Eyes:

Wash with plenty of water, keeping eyelids open. Seek medical assistance.

4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Seek medical assistance.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

Water. Carbon dioxide (CO₂). Foam. Dry powder.

5.2 Fire-fighting means which must NOT be used:

No specific data.

5.3 Special risks:

Combustible. Keep away from sources of ignition. Risk of explosion of dust. In the event of fire, toxic fumes may form.

5.4 Protective equipment:

Self-contained breathing equipment.

6. Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

Do not inhale the dust.

6.2 Precautions for care of the environment:

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

6.3 Methods for collection/cleaning:

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

7. Handling and storage

7.1 Handling:

No special indications.

7.2 Storage:

Well sealed containers. Dry atmosphere. Away from light. Room temperature.

8. Staff exposure/protection controls

8.1 Technical protective measures:

Ensure good ventilation and renewal of the air in the premises.

8.2 Exposure limit control:

VLA-ED: 2 mg/m³

8.3 Respiratory protection:

If dust forms, use suitable respiratory protection.

8.4 Hand protection:

Use suitable gloves

8.5 Eye protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Use suitable work clothing. Wash hands before breaks and when the job is done.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: solid

Colour:

N/A

Granulometry: N/A

Odour: Odourless.

pH: 3 - 4 ((50g/l))

Melting point/freezing point: 170 °C

Initial boiling point and boiling range: 287 °C

Flash point: 165 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: 1,3 hPa (130 °C)

Vapour density: N/A

Relative density:

N/A

Solubility: 70 g/l in water 20 °C

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 516 °C

Decomposition temperature: N/A

Viscosity: N/A

10. Stability and reactivity

10.1 Conditions which should be avoided:

Data not available.

10.2 Matter which should be avoided:

Strong oxidant agents. Alkaline solutions.

10.3 Hazardous decomposition products:

No specific data.

10.4 Complementary information:

Risk of explosion of dust. The gases/fumes can form explosive mixtures with the air.

11. Toxicological information

11.1 Acute toxicity:

LD L0 oral man : 29 mg/kg

LD50 oral mus : 245 mg/kg

LD50 oral rat : 320 mg/kg

11.2 Dangerous effects for health:

Carcinogenic in animal testing. The suspicion of possible effects altering the hereditary patrimony of humans requires further clarification. Upon contact with the skin: irritations Through contact with the eyes: irritations Risk of sight disorders If swallowed: nausea vomiting gastro-intestinal disorders breathing difficulties cyanosis collapse Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Toxicity:

12.1.1 - EC50 test (mg/l):

Bacteria (*Photobacterium phosphoreum*) 0,038 mg/l

Classification:

Extr. toxic

Algae (*Sc. quadricauda*) EC0 1 mg/l

Classification:

Extr. toxic

Algae (*M. aeruginosa*) EC0 1 mg/l

Classification: Extr. toxic

Protozoa (*E. sulcatum*) EC0 11 mg/l

Classification: Extr. toxic

Crustaceans (*Daphnia magna*) EC0 1 mg/l

Classification: Extr. toxic

Fish (*Leuciscus Idus*) 0,2 mg/l

Classification: Extr. toxic

Fish (*Brachidario rerio*) 0,2, mg/l

Classification: Extr. toxic

12.1.2. - Receptor medium: Risk for the water environment

High Risk for the land environment

High 12.1.3. - Observations:

12.2 Persistence and Degradability :

12.2.1 - Test:

BOD5 = 0,62 g/g

ThOD 1,89 g/g

BODD 25D% ThOD /5d

12.2.2. - Biotic degradation classification:

BOD5/COD Biodegradability

Medium, between 1/3 and 1/10

Biodegradable product.

12.3 Bioaccumulative potential:

Non-bioaccumulable product.

12.4 Mobility in soil :

Repartition: log P(oct)= 0,59

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other possible effects on the environment:

Do not allow it to enter soils or water channels.

13. Considerations regarding elimination

13.1 Substance or preparation:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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14. Information concerning transport

Overland (ADR):

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN 3077 Class: 9 Packaging group: III (E)

By sea (IMDG):

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN 3077 Class: 9 Packaging group: III

By air (ICAI-IATA):

Technical name: Environmentally hazardous substance, solid, n.o.s
UN 3077 Class: 9 Packaging group: III

Packaging instructions: CAO 956 PAX 956

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. Other information

Other precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see on this label).
P330 Rinse mouth.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Labelling (65/548/CEE or 1999/45/CE)

R-phrases(s):	R43 May cause sensitisation by skin contact. R41 Risk of serious damage to eyes. R40 Limited evidence of a carcinogenic effect. R22 Harmful if swallowed. R68 Possible risk of irreversible effects. R50 Very toxic to aquatic organisms.
S-phrases(s):	S61 Avoid release to the environment. Refer to special instructions/safety data sheets. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Review number and date: 4 22.7.2011

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In respect of the previous review, changes have been made to the following sections: 5, 6, 8, 10, 12, 14

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.