

according to Regulation (EC) No 1907/2006

# Hydroquinone, 50 g

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

#### 1.1. Product identifier

Hydroquinone, 50 g

CAS No: 123-31-9 Index No: 604-005-00-4 EC No: 204-617-8

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Laboratory chemicals

#### 1.3. Details of the supplier of the safety data sheet

Seller

Company name: CONATEX-DIDACTIC Lehrmittel GmbH

Street: Im Forstgarten 1
Place: D-66459 Kirkel
Internet: www.conatex.com

Supplier

Company name: Carbolution Chemicals GmbH Street: Im Stadtwald, Gebäude A1.2

Place: D-66123 Saarbrücken

Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232

e-mail: michael.bauer@carbolution-chemicals.de

Internet: www.carbolution-chemicals.de

1.4. Emergency telephone +

number:

+49 (0)681 302-71232

#### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

# Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: C3 - Carc. Cat. 3, M3 - Muta. Cat. 3, Xn - Harmful, Xi - Irritant, N - Dangerous for

the environment R phrases:

Limited evidence of a carcinogenic effect.

Possible risks of irreversible effects.

Harmful if swallowed.

Risk of serious damage to eyes.

May cause sensitisation by skin contact.

Very toxic to aquatic organisms.

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories: Carcinogenicity: Carc. 2 Germ cell mutagenicity: Muta. 2 Acute toxicity: Acute Tox. 4

Serious eye damage/eye irritation: Eye Dam. 1 Respiratory/skin sensitization: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Acute 1 (M-Factor = 10)

Hazard Statements:

Suspected of causing cancer.



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Suspected of causing genetic defects.

Harmful if swallowed.

Causes serious eye damage.

May cause an allergic skin reaction.

Very toxic to aquatic life.

#### 2.2. Label elements

#### Hazardous components which must be listed on the label

1,4-dihydroxybenzene; hydroquinone; quinol

Signal word: Danger

Pictograms: GHS05-GHS07-GHS08-GHS09









### **Hazard statements**

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. H400 Very toxic to aquatic life.

### **Precautionary statements**

P273 Avoid release to the environment.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

### **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Sum formula: C6H6O2 Molecular weight: 110,11

### **Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
204-617-8	1,4-dihydroxybenzene; hydroquinone; quinol	100 %
123-31-9	Carc. Cat. 3, Muta. Cat. 3, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R40-68-22-41-43-50	
604-005-00-4	Carc. 2, Muta. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H351 H341 H302 H318 H317 H400	

Full text of R-, H- and EUH-phrases: see section 16.

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).



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#### After inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Medical treatment necessary.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Medical treatment necessary.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

#### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### 5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

#### Advice on protection against fire and explosion

Only use the material in places where open light, fire and other flammable sources can be kept away.

#### 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters



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#### **Exposure limits (EH40)**

	CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
I	123-31-9	Hydroquinone	-	0.5		TWA (8 h)	WEL
			-	-		STEL (15 min)	WEL

#### 8.2. Exposure controls

### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

#### Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

### Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

### Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

#### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state: solid colourless

Odour: No data available

**Test method** 

pH-Value: 3,7 70

Changes in the physical state

Melting point: 172 °C
Initial boiling point and boiling range: 285 °C
Sublimation point: No data available
Softening point: No data available
Flash point: 165 °C

**Flammability** 

Solid: No data available Gas: No data available Lower explosion limits: No data available Upper explosion limits: No data available Ignition temperature: No data available

**Auto-ignition temperature** 

Solid: No data available



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Gas: 515,56 °C

Vapour pressure: 1 hPa

(at 132 °C)

Vapour pressure: No data available

Density: 1,332 g/cm³

Water solubility: 50 g/L
Partition coefficient: 0,59

Viscosity / dynamic:

Viscosity / kinematic:

No data available
Flow time:

No data available
No data available

Vapour density: 3,8

Evaporation rate:

Solvent separation test:

No data available

No data available

No data available

No data available

9.2. Other information

Solid content: No data available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No data available

# 10.3. Possibility of hazardous reactions

No data available

# 10.4. Conditions to avoid

No data available

## 10.5. Incompatible materials

Oxidizing agents, strong.

### 10.6. Hazardous decomposition products

No data available

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

# Toxicocinetics, metabolism and distribution

Toxicological data are not available.

# **Acute toxicity**

Acute toxicity, dermal.

CAS No	Chemical name					
	Exposure routes	Method	Dose	Species	Source	
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol					
	oral	LD50	302 mg/kg	Ratte		

### Irritation and corrosivity

Irritating to eyes. Risk of serious damage to eyes.

#### Sensitising effects

May cause sensitisation by skin contact.



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#### Severe effects after repeated or prolonged exposure

No data available

#### Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer. May cause heritable genetic damage.

#### Specific effects in experiment on an animal

No data available

#### Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

### **Practical experience**

#### Observations relevant to classification

No data available

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Very toxic to aquatic life.

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CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol					
	Acute fish toxicity	LC50	0,44 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50	0,335 mg/l	72 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50	0,29 mg/l	48 h	Daphnia magna	

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

# 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other adverse effects

No data available

### **Further information**

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

### Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

### Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

#### Waste disposal number of used product



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160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

### Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE

CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances

Classified as hazardous waste.

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the

substance itself.

### **SECTION 14: Transport information**

# Land transport (ADR/RID)

**14.1. UN number:** UN3077

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3. Transport hazard class(es):914.4. Packing group:III

Hazard label: 9
Classification code: M7

Special Provisions: 274 335 601

Limited quantity: 5 kg
Transport category: 3
Hazard No: 90
Tunnel restriction code: E

#### Other applicable information (land transport)

E1

### Inland waterways transport (ADN)

**14.1. UN number:** UN3077

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9Classification code:M7

Special Provisions: 274 335 601

Limited quantity: 5 kg

# Other applicable information (inland waterways transport)

**L**1

# Marine transport (IMDG)

**14.1. UN number:** UN3077

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9Special Provisions:274, 335Limited quantity:5 kg



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F-A. S-F EmS:

Other applicable information (marine transport)

Air transport (ICAO)

UN3077 14.1. UN number:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 14.2. UN proper shipping name:

14.3. Transport hazard class(es): Ш 14.4. Packing group: Hazard label:

**Special Provisions:** A97 A158 A179

Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger: 956 IATA-max. quantity - Passenger: 400 kg IATA-packing instructions - Cargo: 956 IATA-max. quantity - Cargo: 400 kg

Other applicable information (air transport)

E1 : Y956

14.5. Environmental hazards

**ENVIRONMENTALLY HAZARDOUS:** yes

### **SECTION 15: Regulatory information**

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

### **EU** regulatory information

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Water contaminating class (D): 3 - highly water contaminating

### **SECTION 16: Other information**

### Relevant R-phrases (Number and full text)

22	Harmful if s	wallowed
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40 Limited evidence of a carcinogenic effect. 41

Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

50 Very toxic to aquatic organisms. Possible risks of irreversible effects.

#### Relevant H- and EUH-phrases (Number and full text)

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction. H318 Causes serious eve damage.

Suspected of causing genetic defects. H341

Suspected of causing cancer. H351 H400 Very toxic to aquatic life.