

## according to Regulation (EC) No 1907/2006

	Hydroquinone, 50 g	
Print date: 14.04.2015	Product code: 9991412	Page 1 of
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 aga	inst
Use of the substance/mixture		
Laboratory chemicals	3	
1.3. Details of the supplier of the sa	fety 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	+49 (0)681 302-71232	
number:	• •	

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Hazard Statements:

Suspected of causing cancer.

## 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)



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#### Hydroquinone, 50 g Product code: 9991412 Print date: 14.04.2015 Page 2 of 8 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. Suspected of causing genetic defects. H341 H351 Suspected of causing cancer. H400 Very toxic to aquatic life. **Precautionary statements** Avoid release to the environment. P273 Wear protective gloves/protective clothing/eye protection/face protection. P280 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
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
Colour:	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: (at 132 °C)	1 hPa	
Vapour pressure:	No data available	
Density:	1,332 g/cm³	
Water solubility:	50 g/L	
Partition coefficient:	0,59	
Viscosity / dynamic:	No data available	
Viscosity / kinematic:	No data available	
Flow time:	No data available	
Vapour density:	3,8	
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	No data available	
9.2. Other information		
Solid content:	No data available	
SECTION 10: Stability and reactivity <u>10.1. Reactivity</u> No data available		
10.3. Possibility of hazardous reactions		
No data available		
<u>10.4. Conditions to avoid</u> 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 distribut Toxicological data are not ava		
Acute toxicity Acute toxicity, dermal.		
CAS No Chemical name		

CAS NO	Chemical hame				
	Exposure routes	Method	Dose	Species	Source
123-31-9	1,4-dihydroxybenzene; hydroquinon	e; 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

T: Toxiolty						
	Very toxic to aquatic life.					
CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
123-31-9	1,4-dihydroxybenzene; hydroqu	inone; quin	iol			
	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		SE SPECIFIED IN THE LIST; gases in pressure containers and discarded micals, consisting of or containing dangerous substances, including mixtures vaste.	
Waste dis 150110	CLOTHING NOT OTHER	SORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE WISE SPECIFIED; packaging (including separately collected municipal ing containing residues of or contaminated by dangerous substances	
Contamina	ated packaging Non-contaminated packag substance itself.	jes may be recycled. Handle contaminated packages in the same way as the	
SECTION 14	: Transport information		
Land transpo	rt (ADR/RID)		
<u>14.1. UN n</u>		UN3077	
	roper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
	sport hazard class(es):	9	
	ing group:		
Hazard lab		9	
Classificati		M7	
Special Pro		274 335 601	
Limited qu	-	5 kg	
Transport of Hazard No	0	3 90	
	triction code:	E	
	licable information (land tra	_	
pp	E1		
Inland waterw	vays transport (ADN)		
<u>14.1. UN n</u>	umber:	UN3077	
<u>14.2. UN p</u>	roper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
<u>14.3. Trans</u>	<u>sport hazard class(es):</u>	9	
14.4. Pack	ing group:	III	
Hazard lab		9	
Classificati		M7	
Special Pro		274 335 601 5 km	
Limited qua Other app	antity: licable information (inland v	5 kg waterwavs transport)	
<b>-</b> - <b>-</b>	E1	,	
Marine transp	oort (IMDG)		
<u>14.1. UN n</u>	umber:	UN3077	
<u>14.2. UN p</u>	roper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
<u>14.3. Trans</u>	<u>sport hazard class(es):</u>	9	
<u>14.4. Pack</u>	ing group:	III	
Hazard lab		9	
Special Pro		274, 335	
Limited qua	antity:	5 kg	



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<b>D</b> · · · · · · · · · · · · · · · · · · ·	Hydroquinone, 50 g	D
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EmS:	F-A, S-F	
Other applicable information (marine tra E1	nsport)	
Air transport (ICAO)		
<u>14.1. UN number:</u>	UN3077	
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
14.3. Transport hazard class(es):	9	
14.4. Packing group:	III	
Hazard label:	9	
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 transpo	ort)	
E1		
: Y956		
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	yes	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture	
EU regulatory information		
Additional information		
	to Regulation (EC) No. 1907/2006 (REACH)	
Salety Data Sheet according		
National regulatory information		
National regulatory information		
National regulatory information Water contaminating class (D):	3 - highly water contaminating	
• •		
Water contaminating class (D): SECTION 16: Other information	3 - highly water contaminating	
Water contaminating class (D):	3 - highly water contaminating	_
Water contaminating class (D): SECTION 16: Other information Relevant R-phrases (Number and full tex	3 - highly water contaminating (t)	
Water contaminating class (D):         SECTION 16: Other information         Relevant R-phrases (Number and full tex         22       Harmful if swallowed.         40       Limited evidence of a c         41       Risk of serious damage	3 - highly water contaminating (t) carcinogenic effect. e to eyes.	
Water contaminating class (D):         SECTION 16: Other information         Relevant R-phrases (Number and full text         22       Harmful if swallowed.         40       Limited evidence of a contained         41       Risk of serious damage         43       May cause sensitisation	3 - highly water contaminating	_
Water contaminating class (D):         SECTION 16: Other information         Relevant R-phrases (Number and full tex 22         40       Limited evidence of a col 41         40       Limited evidence of a col 41         43       May cause sensitisation 50	3 - highly water contaminating <b>(t)</b> carcinogenic effect. e to eyes. n by skin contact. rganisms.	
Water contaminating class (D):         SECTION 16: Other information         Relevant R-phrases (Number and full tex         22       Harmful if swallowed.         40       Limited evidence of a control         41       Risk of serious damage         43       May cause sensitisation         50       Very toxic to aquatic or         68       Possible risks of irrevent	3 - highly water contaminating (t) carcinogenic effect. e to eyes. n by skin contact. rganisms. rsible effects.	
Water contaminating class (D):         SECTION 16: Other information         Relevant R-phrases (Number and full tex         22       Harmful if swallowed.         40       Limited evidence of a c         41       Risk of serious damage         43       May cause sensitisatio         50       Very toxic to aquatic or         68       Possible risks of irrever         Relevant H- and EUH-phrases (Number at the set of the set o	3 - highly water contaminating <b>ct)</b> carcinogenic effect. e to eyes. n by skin contact. rganisms. rsible effects. and full text)	
Water contaminating class (D):         SECTION 16: Other information         Relevant R-phrases (Number and full tex         22       Harmful if swallowed.         40       Limited evidence of a control         41       Risk of serious damage         43       May cause sensitisation         50       Very toxic to aquatic or         68       Possible risks of irrever         Relevant H- and EUH-phrases (Number and H302       Harmful if swall	3 - highly water contaminating <b>(t)</b> carcinogenic effect. e to eyes. n by skin contact. rganisms. rsible effects. <b>and full text)</b> illowed.	
Water contaminating class (D):         SECTION 16: Other information         Relevant R-phrases (Number and full tex 22         40       Limited evidence of a col 41         43       May cause sensitisation 50         50       Very toxic to aquatic or 68         Possible risks of irreven H302         Harmful if swa H317	3 - highly water contaminating <b>(t)</b> carcinogenic effect. e to eyes. n by skin contact. rganisms. rsible effects. <b>and full text)</b> illowed. allergic skin reaction.	
Water contaminating class (D):         SECTION 16: Other information         Relevant R-phrases (Number and full tex 22         40       Limited evidence of a col 41         40       Limited evidence of a col 41         43       May cause sensitisation 50         50       Very toxic to aquatic or 68         Possible risks of irreven H302       Harmful if swa H317         H317       May cause an H318	3 - highly water contaminating <b>(t)</b> carcinogenic effect. e to eyes. n by skin contact. rganisms. rsible effects. <b>and full text)</b> illowed. allergic skin reaction. is eye damage.	
Water contaminating class (D):         SECTION 16: Other information         Relevant R-phrases (Number and full text         22       Harmful if swallowed.         40       Limited evidence of a contract of the serious damage         43       May cause sensitisation         50       Very toxic to aquatic or 68         Possible risks of irrever         Relevant H- and EUH-phrases (Number at H302         H317       May cause an H318         Causes serious H311         Suspected of the serious for the series of	3 - highly water contaminating <b>(t)</b> carcinogenic effect. e to eyes. n by skin contact. rganisms. rsible effects. <b>and full text)</b> illowed. allergic skin reaction.	