



Trade name: Hydrochinonum

Substance number: 064280

Version: 2 / CH

Date revised: 05.10.12

Replaces Version: 1 / CH

Date of printing: 05.10.12

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Hydrochinonum

Item-No.

06428000

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

Use of the substance/preparation

Chemical for synthesis, active substance for cosmetic products

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no.

0041 (0)71 353 58 58

E-mail address of

sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

2. Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Carc. 2 H351

Muta. 2 H341

Acute Tox. 4 H302

Eye Dam. 1 H318

Skin Sens. 1 H317

Aquatic Acute 1 H400

Classification in accordance with EC directives

Classification

Carc.Cat.3, R40

Muta.Cat.3, R68

Xn, R22

Xi, R41

R43

N, R50

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal Word

Danger



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Hazard statements

H351	Suspected of causing cancer.
H341	Suspected of causing genetic defects.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P405	Store locked up.
P501.3	Disposal in compliance with local and national regulations.

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Hazard symbols

Harmful



Dangerous for the environment

R phrases

22	Harmful if swallowed.
40	Limited evidence of a carcinogenic effect.
41	Risk of serious damage to eyes.
43	May cause sensitization by skin contact.
50	Very toxic to aquatic organisms.
68	Possible risk of irreversible effects.

S phrases

2	Keep out of the reach of children.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
61	Avoid release to the environment. Refer to special instructions/Safety data sheets.

Hazardous component(s) to be indicated on label

contains 1,4-Dihydroxybenzene

3. Composition/information on ingredients**Hazardous ingredients****1,4-Dihydroxybenzene**

CAS No.	123-31-9			
EINECS no.	204-617-8			
Concentration		>=	50	%
Classification	Muta.Cat.3, R68 Carc.Cat.3, R40 Xn, R22 Xi, R41			



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N, R50
R43

Classification (Regulation (EC) No. 1272/2008)

Aquatic Acute 1	H400
Skin Sens. 1	H317
Eye Dam. 1	H318
Carc. 2	H351
Acute Tox. 4	H302
Muta. 2	H341

Concentration limits (Regulation (EC) No. 1272/2008)

M = 10

4. First aid measures

4.1. Description of first aid measures

General information

Poisonous symptoms can first be observed after several hours, therefore medical observation for at least 48 hours is necessary. Remove contaminated clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. Seek medical advice immediately. If the patient is likely to become unconscious, place and transport in stable sideways position.

After skin contact

Wash off immediately with soap and water and rinse well.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Eye treatment by an Oculist.

After ingestion

Summon a doctor immediately. Do not induce vomiting.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings

5.2. Special hazards arising from the substance or mixture

Under certain fire conditions the smoke may contain other toxic compounds.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure supply of fresh air.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. In case the product spills into sewage waters, immediately inform the authorities.



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6.3. Methods and material for containment and cleaning up

Dilute with plenty of water. When picked up, treat material as prescribed under heading "Disposal". Pick up mechanically.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid dust formation. Keep container tightly closed. Provide good ventilation of working area (local exhaust ventilation if necessary).

Advice on protection against fire and explosion

No special measures necessary. Keep away from sources of heat and ignition.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value 5 - 25 °C

Requirements for storage rooms and vessels

Keep only in the original container. Do not use aluminium containers.

Hints on storage assembly

Do not store together with foodstuffs. Do not store with oxidizing agents.

Further information on storage conditions

Protect from atmospheric moisture and water. Keep container tightly closed, cool and dry. Protect from heat and direct sunlight. Keep locked up and out of reach of children.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

1,4-Dihydroxybenzene

List	SUVA	
Type	MAK	
Value	2	mg/m ³
Short term exposure limit	2	mg/m ³

Maximum limit value: 15 min; Skin resorption / sensibilisation: H; Pregnancy group: D; Status: 2012;

8.2. Exposure controls

Exposure controls

See chapter 7. No measures exceeding the ones mentioned are necessary.

General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Avoid contact with eyes. Do not inhale dust/fumes/mist.

Respiratory protection

If ventilation insufficient, use a respiratory protection apparatus. Multi-purpose filter ABEK

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	nitrile	
Material thickness	0.38	mm



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Penetrating time	>=	8	h
Appropriate Material		Natural Latex	
Material thickness		0.5	mm
Penetrating time	>=	8	h
Appropriate Material		Polychloroprene	
Material thickness		0.5	mm
Penetrating time	>=	8	h
Appropriate Material		Butyl rubber - Butyl	
Material thickness	>=	0.4	mm
Penetrating time	>=	8	h
Appropriate Material		neoprene	
Material thickness	>=	0.65	mm
Penetrating time	>=	280	min

Eye protection

Tightly fitting safety glasses

Body protection

Clothing as usual in the chemical industry.

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	crystalline		
Colour	white		
Odour	characteristic		
pH			
Value	3.75		
Concentration/H ₂ O	70	g/l	
Temperature	20	°C	
Melting point			
Value	172.3		°C
Boiling point			
Value	285		°C
Pressure	973	mbar	
Flash point			
Value	165		°C
Flammability	Not ignitable		
Vapour pressure			
Value	0.002		Pa
Temperature	25	°C	
Density			
Value	1.328		g/cm ³
Temperature	20	°C	
Solubility in water			
Value	72		g/l
Temperature	20	°C	
Ignition temperature			
Value	520		°C
Thermal decomposition			
Remarks	Stable at ambient temperature.		



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9.2. Other information

Other information

The product is non-combustible. The product is not dangerous for explosions.

10. Stability and reactivity

10.4. Conditions to avoid

Protect from heat/overheating.

Thermal decomposition

Remarks Stable at ambient temperature.

10.6. Hazardous decomposition products

Irritant gases/vapours

Other information

Danger of dust explosion

11. Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Species	rat		
LD50	320		mg/kg

Skin corrosion/irritation

Remarks No effect of irritation known.

Serious eye damage/irritation

Remarks	Long lasting irritation of the eyes possible.
Remarks	Danger acute eye damage.

Sensitization

Remarks Possibility of sensitization through skin contact.

Mutagenicity

Reference substance	1,4-Dihydroxybenzene
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Reproduction toxicity

Reference substance	1,4-Dihydroxybenzene
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Carcinogenicity

Reference substance	1,4-Dihydroxybenzene
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Other information

Carc. Cat. 3
Muta. Cat. 3

12. Ecological information

12.1. Toxicity

Fish toxicity

Reference substance	1,4-Dihydroxybenzene
Species	Fathead minnow (Pimephales promelas)
LC50	0.044 mg/l
Duration of exposure	96 h
Remarks	Very toxic for fishes.



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Daphnia toxicity

Reference substance	1,4-Dihydroxybenzene		
Species	Daphnia magna		
EC50	0.29		mg/l
Duration of exposure	48	h	

12.6. Other adverse effects**General information / ecology**

Hazard for drinking water supplies. Do not allow to enter soil, waterways or waste water canal. Very toxic for aquatic organisms.

13. Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code	16 03 05*	organic wastes containing dangerous substances
EWC waste code		No not dispose with rubbish.
EWC waste code		Should not be released into the sanitary sewer system.
Disposal in compliance with local and national regulations.		

Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

14. Transport information**Land transport ADR/RID****14.1. UN number**

UN 3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

Danger releasing substance 1,4-Dihydroxybenzene

14.3. Transport hazard class(es)

Class 9

Label 9

14.4. Packing group

Packing group III

Marine transport IMDG/GGVSee**14.1. UN number**

UN 3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

Danger releasing substance 1,4-Dihydroxybenzene

14.3. Transport hazard class(es)

Class 9

14.4. Packing group

Packing group III

14.5. Environmental hazards

Marine Pollutant

Air transport ICAO/IATA**14.1. UN number**

UN 3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

Danger releasing substance 1,4-Dihydroxybenzene



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14.3. Transport hazard class(es)

Class 9

14.4. Packing group

Packing group III

15. Regulatory information**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

16. Other information**R-phrases listed in chapter 3**

22	Harmful if swallowed.
40	Limited evidence of a carcinogenic effect.
41	Risk of serious damage to eyes.
43	May cause sensitization by skin contact.
50	Very toxic to aquatic organisms.
68	Possible risk of irreversible effects.

Hazard statements listed in chapter 3

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.

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.