

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
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MATERIAL SAFETY DATA SHEET (MSDS)

HYDROQUINONE (FOR SYNTHESIS) (QUINOL)

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

1.1. Product identifier

Trade name : HYDROQUINONE (FOR SYNTHESIS) (QUINOL)

Product code : H0108800500

Identification of the product : 1,4-dihydroxybenzene; hydroquinone; quinol
 CAS No: 123-31-9
 EC No :204-617-8
 Annex No :604-005-00-4

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

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : SUVCHEM
 Chaitanya Tower, 2nd Floor, Office # 206,
 Siddharth Nagar, S.V. Road,
 Goregaon (West), Mumbai - 400062,
 Maharashtra, India.
 Contact: +91 22 28725393 / 94 / 95
 Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : Carc. Cat. 3; R40
 Muta. Cat. 3; R68
 Xn; R22
 Xi; R41
 R43
 N; R50

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Germ cell mutagenicity - Category 2 - Warning (CLP : Muta. 2) H341
 Carcinogenicity - Category 2 - Warning (CLP : Carc. 2) H351
 Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318
 Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302
 Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317

MATERIAL SAFETY DATA SHEET (MSDS)

HYDROQUINONE (FOR SYNTHESIS) (QUINOL)

2. Hazards identification -DSD (continued)

Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP)
: Aquatic Acute 1) H400

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s)



Symbol(s)

: Xn : Harmful
N : Dangerous for the environment

R Phrase(s)

: R22 : Harmful if swallowed.
R40 : Limited evidence of a carcinogenic effect.
R41 : Risk of serious damage to eyes.
R43 : May cause sensitization by skin contact.
R68 : Possible risks of irreversible effects.
R50 : Very toxic to aquatic organisms.

S Phrase(s)

: S2 : Keep out of the reach of children.
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.
S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains

: 1,4-dihydroxybenzene; hydroquinone; quinol

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words

: Danger

Hazard statements

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

Precautionary statements

• General

: P102: Keep out of reach of children.
P103: Read label before use.
P101: If medical advice is needed, have product container or label at hand.
P201: Obtain special instructions before use.

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MATERIAL SAFETY DATA SHEET (MSDS)

HYDROQUINONE (FOR SYNTHESIS) (QUINOL)

2. Hazards identification -DSD (continued)

- **Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.
 P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
 P273: Avoid release to the environment.
 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.
- **Response** : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
 P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.
 P308+P313: If exposed or concerned : get medical advice.
 P391: Collect spillage.
 P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313: If skin irritation or rash occurs : Get medical advice.
 P363: Wash contaminated clothing before reuse.
- **Storage** : P405: Store locked up.
- **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Contains** : 1,4-dihydroxybenzene; hydroquinone; quinol

2.3. Other hazards

- Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation : 1,4-dihydroxybenzene; hydroquinone; quinol

EC No :204-617-8
 Annex No :604-005-00-4
 Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
1,4-dihydroxybenzene; hydroquinone; quinol	: 100 %	123-31-9	204-617-8	604-005-00-4	----	Carc. Cat. 3; R40 Muta. Cat. 3; R68 Xn; R22 Xi; R41 R43 N; R50 ----- Eye Dam 1 _ H318 Acute Tox. 4 (oral) _ H302 Carc. 2 _ H351 Muta. 2 _ H341 Skin Sens. 1 _ H317 Aquatic Acute 1 _ H400

Contains no other components or impurities which will influence the classification of the product.

MATERIAL SAFETY DATA SHEET (MSDS)

HYDROQUINONE (FOR SYNTHESIS) (QUINOL)

4. First aid measures

4.1. Description of first aid measures

Inhalation	: Assure fresh air breathing. Allow the victim to rest.
Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation or rash occurs : Specific treatment (see on this label). Get medical advice.
Eye contact	: Immediately call a POISON CENTER or doctor. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
Ingestion	: Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use	: Suspected of causing cancer. Suspected of causing genetic defects. Causes serious eye damage. Swallowing a small quantity of this material will result in serious health hazard. May cause an allergic skin reaction.
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4.3. Indication of any immediate medical attention and special treatment needed

General information	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
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5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
Surrounding fires	: Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	: Under fire conditions, hazardous fumes will be present.
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5.3. Advice for fire-fighters

Protection against fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

MATERIAL SAFETY DATA SHEET (MSDS)

HYDROQUINONE (FOR SYNTHESIS) (QUINOL)

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For emergency responders** : Equip cleanup crew with proper protection.
Ventilate area.
- For non-emergency personnel** : Evacuate unnecessary personnel.

6.2. Environmental precautions

- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust.
Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

- Handling** : Do not eat, drink or smoke when using this product. Obtain special instructions before use. Use personal protective equipment as required. Avoid breathing dust, fume, gas, mist, vapours, spray. Wash contaminated clothing before reuse.
Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
- Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

- Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
- Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

- Specific end use(s)** : None.

MATERIAL SAFETY DATA SHEET (MSDS)

HYDROQUINONE (FOR SYNTHESIS) (QUINOL)

8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection	: Avoid all unnecessary exposure.
• Respiratory protection	: Wear approved mask.
• Hand protection	: Wear protective gloves.
• Eye protection	: Chemical goggles or safety glasses.
• Others	: When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits	: No data available.
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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Solid.
Colour	: White powder
Odour	: N/A
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 172 - 175 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 499 °C
Flammability (solid, gas)	: N/A
Flash point [°C]	: 165 °C
Boiling point [°C]	: 285 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: 1 mmHg at 132 °C
Vapour density	: 3,8
Density [g/cm ³]	: 1,332
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Soluble in water
Solubility in water	: N/A

MATERIAL SAFETY DATA SHEET (MSDS)

HYDROQUINONE (FOR SYNTHESIS) (QUINOL)

9. Physical and chemical properties (continued)

Log Pow octanol / water at 20°C : No data available.
 Solubility : 3,7
 Viscosity at 40°C [mm²/s] : N/A

9.2. Other information

Explosive properties : N/A
 Explosion limits - upper [%] : N/A
 Explosion limits - lower [%] : N/A
 Oxidising properties : No data available.

10. Stability and reactivity

10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity
 • Inhalation : Based on available data, the classification criteria are not met.

MATERIAL SAFETY DATA SHEET (MSDS)

HYDROQUINONE (FOR SYNTHESIS) (QUINOL)

11. Toxicological information (continued)

• Dermal	: Based on available data, the classification criteria are not met.
• Ingestion	: Harmful if swallowed.
Corrosion	: Causes serious eye damage.
Irritation	: Based on available data, the classification criteria are not met.
Sensitization	: May cause an allergic skin reaction.
Mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Suspected of causing cancer.
Toxic for reproduction	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Based on available data, the classification criteria are not met.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity

Toxicity information : Very toxic to aquatic life.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods

MATERIAL SAFETY DATA SHEET (MSDS)

HYDROQUINONE (FOR SYNTHESIS) (QUINOL)

13. Disposal considerations (continued)

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

14. Transport information

14.1. Land transport (ADR-RID)

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N° : 3077
H.I. nr : 90
ADR - Class : 9
Labelling - Transport : 9 : Miscellaneous dangerous substances and articles.



ADR - Classification code : M7
ADR - Group : III
ADR - Packing instructions : P002 R001 LP002
ADR - Limited Quantity : 5 KG
ADR - Tunnel code : E : Passage forbidden through tunnels of category E.



14.2. Sea transport (IMDG) [English only]

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N° : 3077
IMO-IMDG - Class or division : 9 : Miscellaneous dangerous substances and articles.
IMO-IMDG - Packing group : III
IMO-IMDG - Packing instructions : P002 LP02
IMO-IMDG - Limited quantities : 5 kg
IMO-IMDG - Marine pollution : Yes
EMS-Nr : F-A S-F

14.3. Air transport (ICAO-IATA) [English only]

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HYDROQUINONE (FOR SYNTHESIS) (QUINOL)

14. Transport information (continued)

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
 UN N° : 3077
 IATA - Class or division : 9 : Miscellaneous dangerous substances and articles.
 IATA - Packing group : III
 IATA - Passenger and Cargo Aircraft : ALLOWED
 - Passenger and Cargo - Packing : 956
 instruction
 - Passenger and Cargo - Maximum : 400 kg
 Quantity/Packing
 IATA - Cargo only : ALLOWED
 - Cargo only - Packing instruction : 956
 - Cargo only - Maximum Quantity/ : 400 kg
 Packing
 IATA - Limited Quantities : 30 kg G
 ERG-Nr : 9L

15. Regulatory information

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

Safety, health and environmental : Ensure all national/local regulations are observed.
 regulations/legislation specific for the substance or mixture
 REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.
 REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other information

Revision : Revision - See : *
 Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.
 vPvB: very persistent and very bioaccumulative
 Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF
 THE COUNCIL of 16 December 2008 on classification, labelling and packaging of
 substances and mixtures, amending and repealing Directives 67/548/EEC and
 1999/45/EC, and amending Regulation (EC) No 1907/2006
 List of relevant R phrases (heading 3) : R22 : Harmful if swallowed.
 R40 : Limited evidence of a carcinogenic effect.
 R41 : Risk of serious damage to eyes.
 R43 : May cause sensitization by skin contact.
 R50 : Very toxic to aquatic organisms.

MATERIAL SAFETY DATA SHEET (MSDS)
HYDROQUINONE (FOR SYNTHESIS) (QUINOL)

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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