



## MATERIAL SAFETY DATA SHEETS

319

Hydroquinone

### 1. CHEMICAL IDENTITY

**Chemical Name :** Hydroquinone

**Chemical Classification:** Toxic

**Trade Name :**

**Synonyms:** 1,4-Benzenediol, p - Dihydroxybenzene, Hydroquinol, Quinol

**Formula :** C<sub>6</sub>H<sub>6</sub>O<sub>2</sub>

**CAS No:** 123-31-9

**UN No:** 2662

### Regulated Identification

**Shipping Name :** Hydroquinone

**Hazchem Code :** 2Z

**Codes / Label :** Class 6, Toxic

**Hazardous Waste ID No :** 13

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
1 Hydroquinone	123-31-9	3	
2		4	

### 2. PHYSICAL / CHEMICAL DATA

**Boiling Pt. °C:** 285 °C

**Physical State:** Solid

**Appearance:** White, light tan / gray

**Melting Pt °C:** 170 °C

**Vapour Pressure @ 35°C mmHg:** 7 mm Hg at 1314 C

**Odour:**

**Vapour Density(Air =1):** 3.81

**Solubility in water at 30°C g/100ml:** Soluble

**Others:** Very soluble, in Alcohol, Ether, Slightly soluble in Benzene.

**Specific Gravity (Water =1 ):** 1.33 at 20 °C Liquid

**pH :**

### 3. FIRE / EXPLOSION HAZARD DATA

**Flammability :** No

**LEL:** 1.6

**Flash Point °C in OC:**

**TDG Flammability:**

**UEL:** 15.3

**Flash Point °C in CC:** 165

**Autoignition Temperature °C :** 515

**Explosion sensitivity to impact:** Stable

**Explosion sensitivity to static Electricity:** Stable

**Hazardous Combustion Products :** Fire may produce irritating, corrosive and/or toxic gases.

**Hazardous Polymerization :** Will not occur.

**Combustible Liquid:** No

**Explosive Material:** No

**Corrosive Material** No

**Flammable Material:** No

**Oxidiser :** No

**Others:**

**Pyrophoric Material:** No

**Organic Peroxide :** No

### 4. REACTIVITY DATA

**Chemical Stability :** Stable

**Incompatibility with other material :** Strong Oxidisers.

**Reactivity :** Reacts with oxidising materials. potentially explosive reaction with O<sub>2</sub> at 90°C/100 Bar. Violent reaction with NaOH

**Hazardous** :  
**Reaction Products**

## 5. HEALTH HAZARD DATA

**Routes of entry:** Inhalation, Ingestion, Skin and Eyes

### Effects of Exposure / Symptoms:

Inhalation: Can cause nausea, dizziness, a sense of suffocation, increased respiration rate, vomiting, pallor, muscular twitching, headache, dyspnoea, cyanosis, delirium and collapse. The urine is green or brownish green. Eyes: Can cause immediate irritation and may result in ulceration of the cornea. Skin: Causes dermatitis.

### Emergency Treatment :

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Skin:** Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do not allow victim to rub or keep eyes closed.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**LD50 (oral-rat) mg/kg:** 320 mg/kg

**STEL:**

**LC50 (rat) mg/kg:**

**Odour Threshold:**

**Permissible Exposure Limit:** 2 mg/m<sup>3</sup>

**TLV (ACGIH) :** 2 mg/m<sup>3</sup>

NFPA Hazard	Health	Flammability	Reactivity	Special
Signals	2	1	0	

## 6. PREVENTIVE MEASURES

**Personal Protective Equipment** : Avoid contact with solid or dust. Provide respiratory protective unit for the dust, side covered safety goggles or face shield, rubber hand gloves, protective overclothing and shoes.

**Handling** : Wash thoroughly after handling. Use only in a well ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Storage** : Keep in cool, dry, area, away from Strong Oxidisers. Keep the containers tightly closed and protect from light.

**Precautions** :

## 7. EMERGENCY / FIRST AID MEASURES

### FIRE:

**Fire Extinguishing Media** : Dry chemical powder, foam, water & CO<sub>2</sub>.

**Special Procedure** : Keep the containers cool by spraying water if exposed to heat or flame.

**Unusual Hazards** : Dust cloud may explode if ignited in an enclosed area.

### EXPOSURE: First Aid Measures:

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Skin:** Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally

lifting the upper and lower eyelids. Get medical aid immediately. Do not allow victim to rub or keep eyes closed.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Antidotes / Dosages:**

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**SPILLS :**

**Steps To Be Taken** : Sweep and collect without making dust. Wash the area with water and soap.

**Waste Disposal Method:** Seal all the waste in vapour tight plastic bags for eventual disposal

**8. ADDITIONAL INFORMATION / REFERENCES**

**9. MANUFACTURERS / SUPPLIERS DATA**

<b>NAME OF FIRM :</b>	<b>Contact person</b>
<b>MAILING ADDRESS :</b>	<b>in Emergency :</b>
<b>TELEPHONE / TELEX NOS :</b>	<b>Local Bodies involved :</b>
<b>TELEGRAPHIC ADDRESS :</b>	<b>Standard Packing :</b>
<b>OTHERS :</b>	<b>Trem Card Details / Ref :</b>

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