



Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)
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HYDROQUINONE

1. Product Identification

Synonyms: 1,4-Dihydroxybenzene; p-Dihydroxybenzene; 1,4-Benzenediol; Dihydroxybenzene; Quinol

CAS No.: 123-31-9

Molecular Weight: 110.11

Chemical Formula: $C_6H_4(OH)_2$

Product Code: 31702 , 39070

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Hydroquinone	123-31-9	90 - 100%

3. Hazards Identification

Potential Health Effects

Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Systemic effects have not been proven by this route.

Ingestion: May cause hyperactivity, stupor, fall in blood pressure, hyperpnea, abdominal pain, diarrhea, intense thirst, sweating, tinnitis, nausea, dizziness

Skin Contact: Causes severe irritation, redness and pain. Alkaline solutions can cause skin sensitization.

Eye Contact: Causes severe irritation and possible corneal ulceration.

Chronic Exposure : Repeated exposure to vapor or dust (typically 10 to 30 mg/m³) for > 5 years has caused brownish staining of the conjunctiva which may be followed by changes to the cornea leading to loss of visual acuity. Repeated exposure may also cause skin effects.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin or eye disorders or impaired respiratory function may be more susceptible to the effects of this substance.

4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Wipe off excess material from skin then immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

5. Fire Fighting Measures

Fire: Flash point: 165C (329F) CC

Autoignition temperature: 516C (961F)

May pose a fire hazard when exposed to heat, flame, or oxidizing agents.

Explosion: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Fire Extinguishing Media: Dry chemical, alcohol foam or carbon dioxide. Water or foam may cause frothing.

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Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition. Isolate from oxidizing materials. Protect from direct sunlight. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: White crystals.

Odor: Odorless.

Solubility: 7g/100g water @ 25C (77F).

Specific Gravity: 1.33 @ 15C

pH: No information found.

% Volatiles by volume @ 21C (70F): 0

Boiling Point: 285C (545F)

Melting Point: 170C (338F)

Vapor Density (Air=1): 3.81

Vapor Pressure (mm Hg): 4 @ 150C (302F)

Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage. Solution becomes brown in air due to oxidation.

Hazardous Decomposition Products:

Quinone and oxides of carbon may be formed when this material is heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Sodium hydroxide, strong alkalis, and oxidizers.

Conditions to Avoid: Heat, flame, ignition sources, incompatibles, light, and air.

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11. Toxicological Information

Oral rat LD50: 320 mg/kg; investigated as a tumorigen, mutagen, reproductive effector.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Hydroquinone (123-31-9)	No	No	3

12. Ecological Information

Environmental Toxicity:

96 Hr LC50 rainbow trout: 0.097 mg/L;

96 Hr LC50 fathead minnow: 0.1 mg/L

13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Land

Proper Shipping Name: HYDROQUINONE

Hazard Class: 6.1

UN/NA: UN2662

Packing Group: III

International (Water)

Proper Shipping Name: HYDROQUINONE

Hazard Class: 6.1

UN/NA: UN2662

Packing Group: III

International (Air, I.C.A.O.)

Proper Shipping Name: HYDROQUINONE

Hazard Class: 6.1

UN/NA: UN2662

Packing Group: III

15. Regulatory Information

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No

Reactivity: No (Pure / Solid)

16. Other Information

Product Use:

Laboratory Reagent.

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