

SECTION-1: Identification of the substance / mixture and the company / undertaking

Catalogue Number	CS-ER-02803
Product Name	Hydroquinone(Secondary Standards traceble to USP)
CAS No.	123-31-9
Category	Secondary Standards
Synonyms	1,4-Dihydroxybenzene
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	Not available

SECTION 2: Hazards identification

Disclaimer: This is sample MSDS. Please email sales@clearsynth.com for more details.

2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

- Skin irritation (Category 2)
- Serious eye damage/eye irritation (Category 2)
- Acute toxicity (Category 4)

2.2 Label Elements

Signal Word: Warning



Hazard Statement(s)

Code	Statement
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.

H318	Causes serious eye damage.
H341	Not available
H351	Not available
H400	Not available
H302+H312	Harmful if swallowed. Harmful in contact with skin.
H312	Harmful in contact with skin.
H410	Not available
H340	Not available
H370	Not available
H373	Not available
H316	Not available
H336	Not available
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H360	Not available
H372	Not available

Precautionary Statement(s)

Code	Statement
P203	Not available
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P264+P265	Not available
P270	Not available
P272	Not available
P273	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P317	Not available
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P354+P338	Not available

P317	Not available
P318	Not available
P321	Specific treatment (see ... on this label).
P330	Not available
P333+P317	Not available
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Not available
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation
P260	Not available
P308+P316	Not available
P319	Get medical help if you feel unwell.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332+P317	If skin irritation occurs: Get medical help.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
P337+P317	If eye irritation persists: Get medical help.

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Hydroquinone(Secondary Standards traceble to USP)

CAS Number : 123-31-9

Molecular Formula : C6H6O2

Molecular Weight : 110.11

Parent Chemical : Hydroquinone

Synonyms : 1,4-Dihydroxybenzene

Concentration : Not available

SECTION 4: First aid measures

Not available

SECTION 5: Firefighting measures

Not available

SECTION 6: Accidental release measures

Not available

SECTION-7: Handling and storage

Not available

SECTION 8: Exposure controls / personal protection

Not available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	10.5
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available

Property	Value
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

Not available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: Ingestion of 1 g by an adult has caused dizziness, sense of suffocation, increased rate of respiration, vomiting, pallor, muscular twitching, headache, dyspnea, cyanosis and collapse and eventually death due to respiratory failure. Five hundred forty-four (544) crewmen aboard a large USA Navy vessel developed GI disease characterized by acute onset of nausea, vomiting, abdominal cramps, and diarrhea which was found to be due to hydroquinone contamination of the chilled water system by automatic photo developing machines on the ship.
- Skin corrosion/irritation: Skin irritation, sensitization, dermatitis.
- Serious eye damage/eye irritation: Exposure of the eyes to hydroquinone dust can cause ocular damage consisting of irritation, light sensitivity, lacrimation, injury to corneal epithelium, and corneal ulceration. HQ dust oxidizes to brown benzoquinone; this material causes pigmentation of the eye and, in some cases, permanent corneal damage. Reported cases of keratitis and discoloration of the conjunctiva among men exposed to concentrations ranging from 10 to 30 mg of vapor or dust of HQ per cubic meter of air.
- Respiratory or skin sensitization: Skin sensitization.
- Germ cell mutagenicity: HQ is only weakly positive in in vivo chromosomal assays when expected human exposure routes are used; chromosomal effects are increased significantly when parenteral or in vitro assays are used. HQ was not mutagenic in Salmonella typhimurium strains TA98, TA100, TA1535, or TA1537 with or without exogenous metabolic activation. It induced trifluorothymidine resistance in mouse L5178Y/TK lymphoma cells in the presence or absence of metabolic activation, induced sister chromatid exchanges in Chinese hamster ovary cells with or without exogenous metabolic activation, caused chromosomal aberrations in the presence of activation, and induced aneuploidy in yeast by delaying the cell cycle at the G2/M transition.
- Carcinogenicity: Confirmed animal carcinogen with unknown relevance to humans. In cancer bioassays, HQ has reproducibly produced renal adenomas in male rats. Mouse liver tumors (adenomas) and mononuclear cell leukemia (female rat) have also been reported following HQ exposure, but their significance is uncertain. Some studies report malignancies in animals treated for an extended period with large oral doses.
- Reproductive toxicity: Data on the effect of HQ on development are conflicting; several studies report minimal to no treatment-related effects on duration of gestation, mean litter size, fetal viability, or lactation index in rats fed diets

containing HQ. However, one study reports that female rats fed 0.5 g of hydroquinone in their diet during pregnancy had higher rates of fetal resorption than controls (100% versus 41% of the dams), and a greater number of the total implantations were resorbed (27% versus 11%).

- STOT-single exposure: No data available.
- STOT-repeated exposure: Parenteral administration of HQ is associated with changes in several hematopoietic and immunologic endpoints; bone marrow and hematologic effects are generally not characteristic of HQ exposures in animal studies employing routes of exposure other than parenteral. In two-year studies in rats of each sex given hydroquinone in deionized water by gavage, nearly all male rats and most female rats in all vehicle control and dosed groups had nephropathy; severity was judged to be greater in high dose male rats.
- Aspiration hazard: No data available.

Likely routes of exposure

- No data available.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye effects: conjunctivitis; keratitis; irritation, light sensitivity, lacrimation, injury to corneal epithelium, corneal ulceration; pigmentation of the eye and, in some cases, permanent corneal damage; discoloration of the conjunctiva.
- Ingestion effects: dizziness, sense of suffocation, increased rate of respiration, vomiting, pallor, muscular twitching, headache, dyspnea, cyanosis, collapse; GI disease characterized by acute onset of nausea, vomiting, abdominal cramps, and diarrhea; urine is green or brownish-green in color and continues to darken on standing.
- Skin effects: skin irritation, sensitization, dermatitis.

SECTION 12: Ecological information

Not available

SECTION 13: Disposal considerations

Not available

SECTION 14: Transport information

Not available

SECTION 15: Regulatory information

Not available

SECTION 16: Other information

Not available

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