

Material Safety Data Sheet



HYDROQUINONE CRYSTAL

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

CAROLINA

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Section 1 - Product Description

Product Name: Hydroquinone

Product Code(s): 86-8230

Size: 500 g

Chemical Name: Hydroquinone

CAS Number: 123-31-9

Formula: 1,4-(HO)₂C₆H₄

Synonyms: 1,4-Dihydroxybenzene; Quinol; Dihydroquinone

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: May be fatal if swallowed or inhaled. Irritating to eyes and skin. After contact with skin, wash immediately with plenty of water.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation to skin. Very toxic in contact with skin.

Ingestion: May cause gastrointestinal discomfort. Very toxic if swallowed.

Inhalation: May cause irritation to respiratory tract. Very toxic by inhalation.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Hydroquinone (CAS# 123-31-9) 90 - 100%

TLV units: ACGIH-TLV: 2 mg/m³ TWA

PEL units: OSHA-PEL: 2 mg/m³ TWA

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Ingestion - If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): 165 C

NFPA Rating:

Health: 0

Fire: 0

Reactivity: 0

Extinguisher Media: Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A N/A

Autoignition Temperature: 515°C

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: N/A

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep container tightly closed in a cool, well-ventilated place.

Use only in well-ventilated areas.

Toxic by inhalation and if swallowed.

Avoid contact with skin and eyes.

After contact with skin, wash immediately with plenty of water.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes

Mechanical(General): Yes

Special: No

Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.

Eye Protection: Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 110.11 g/mole

Boiling Point: 287°C

Vapor Density(Air=1): 3.81

Percent Volatile by Volume: N/A

Solubility in Water: Soluble

Melting Point: 170°C

Vapor Pressure: N/A

Specific Gravity (H₂O=1): 1.358

Evaporation Rate (BuAc=1): N/A

Appearance and Odor: Off-white solid, odorless, lachrymator.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: None Known

Incompatibility (Materials to Avoid): Oxidizers,

Hazardous Decomposition Products: CO_x,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: Oral rat LD50: 320 mg/Kg

Classified as A3 (confirmed animal carcinogen) by ACGIH. Relevance of animal results to humans unknown, epidemiological studies do not confirm carcinogenicity in humans and may not be relevant to normal worker exposure.

Effects of Overexposure:

Acute: See Section 2

Chronic: Tests on laboratory animals indicate material may produce adverse mutagenic and reproductive effects.

Conditions Aggravated by Overexposure: Respiratory disorders, Skin disorders, Eye disorders, Liver disorders, Allergies, Impaired Kidney Function, Cardiovascular system, Gastrointestinal, Central Nervous System disorders,

Target Organs: Respiratory system, Skin, Eyes, Gastrointestinal tract,

Primary Route(s) of Entry: Inhalation, ingestion, eye or skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: N/A

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: N/A

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute Chronic

Name List:

Hydroquinone - Yes

Chemical Category:

Hydroquinone - No

CERCLA Section 103 RQ(lb.): Hydroquinone - 100

RCRA Section 261.33: Hydroquinone - No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists
CAS Number	Chemical Services Abstract Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency of Research on Cancer
N/A	Not Available
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act

SARA Superfund Amendments and Reauthorization Act
TLV Threshold Limit Value
TSCA Toxic Substances Control Act