

SAFETY DATA SHEET

HYDROQUINONE SOLUTION, 0.15 % IN ACID WATER pH 4.0

Section 1 - Chemical Product and Company Identification

SDS Name: Hydroquinone Solution pH 4.0
Catalog Numbers: A-111-6, A-118-5 & SO-1139
Company Identification: ROWLEY BIOCHEMICAL
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883
Emergency Number: 800-424-9300
For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

HEALTH HAZARDS

H303-Acute Oral Toxicity: 4
H312-Acute Dermal Toxicity: 4
H315-Skin Corrosion/Skin Irritation: 2
H320-Eye damage/Irritation: 2B
H317-Skin Dermal Sensitization: 1

PHYSICAL HAZARDS

Not classified

ENVIRONMENTAL HAZARDS

Aquatic acute environmental Hazards: Not classified
Chronic environmental Hazards: Not classified

Pictograms or Hazard symbols and Hazard statement.



Warning: Harmful if swallowed. Harmful in contact with skin.
Causes skin irritation. May cause an allergic skin reaction.

Warning: Causes eye irritation.

Precautionary Statement

H312+H303+H315

P280-Wear protective gloves, clothing, and eye and face protection.

P302 + P352-If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.

P312-Call a POISON CENTER/physician if you feel unwell.

P363-Wash contaminated clothing before reuse.

P264-Wash thoroughly after handling.

P332 + P313-If skin irritation occurs, get medical advice/attention.

H320

P305 + P351 + P338-If in eyes, rinse cautiously with water for several minutes.

P337 + P313-If eye irritation persists, get medical advice/attention.

H317

P261-Avoid breathing fumes/mist/vapors.

P272-Contaminated work clothing should not be allowed out of the work place.

WARNING! Causes skin irritation. Causes eye irritation. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. May cause an allergic skin reaction. Harmful if swallowed.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
123-31-9	Hydroquinone	0.15 w/v
77-92-9	Citric Acid	0.003 w/v
7732-18-5	Water	Balance

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

Oral Exposure: If Swallowing seek immediate medical advice.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

Firefighters should wear proper protective clothing and self contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes.

Extinguishing Media: Use water spray, dry chemical powder, or appropriate foam.

Flash Point: N/A

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Special Remarks on Fire Hazards: When heated to decomposition it emits toxic fumes of sulfur oxides, hydrogen sulfide, and sodium oxide.

Special Remarks on Explosion Hazards: An explosion may occur with raw material if triturated with nitrates, chlorates, or permanganates.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear protective gear.

Methods for Cleaning up: Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

Section 7 - Handling and Storage

Use care when handling. Wash thoroughly after handling. Store capped at 4 degree C temperature. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear

Odor: Odorless

pH: N/A

water.

Vapor Pressure: 2.3 kPa @ 20deg. C

Vapor Density: 0.62 (Air=1)

Evaporation Rate: N/A

Viscosity: N/A

Boiling Point: 100 deg. C

Solubility: N/A

Section 10 - Stability and Reactivity

Chemical Stability: The product is stable.

Conditions to Avoid: Heat, incompatible materials.

Incompatibilities with Other Materials: Bromine trifluoride, strong acids.

Hazardous Decomposition Products: Not available.

Hazardous Polymerization: Hydrogen chloride, calcium oxide.

Section 11 - Toxicological Information

RTECS#:

LD50/LC50:

Acute toxicity LD50 Oral - rat - 367.3 mg/kg (OECD Test Guideline 401)

Inhalation: no data available LD50 Dermal - rabbit - > 2,000 mg/kg

CAS#: 77-92-9

Acute toxicity LD50 Oral - rat - 5,400 mg/kg (OECD Test Guideline 401) Inhalation: no data available LD50 Dermal - rat - > 2,000 mg/kg

Carcinogenicity:

CAS# 1123-31-9: is listed by ACGIH, IARC, NTP, or CA Prop 65. As Suspected of causing cancer.

Section 12 - Ecological Information

CAS# 123-31-9: Toxicity Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 0.04 - 0.1 mg/l - 96.0 h Toxicity to daphnia and other aquatic invertebrates EC50 - *Daphnia magna* (Water flea) - 0.13 mg/l - 48 h Toxicity to algae EC50 - *Pseudokirchneriella subcapitata* (green algae) - 0.335 mg/l - 72 h 12.2 Persistence and degradability Biodegradability Biotic/Aerobic - Exposure time 14 d Result: 86 % - Readily biodegradable. 12.3 Bioaccumulative potential Bioaccumulation *Leuciscus idus* (Golden orfe) - 3 d - 50 µg/l Bioconcentration factor (BCF): 40

Section 13 - Disposal Considerations

Appropriate method of disposal of substance or preparation:

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved wasted facility.

Section 14 – Transport Information

DOT

Non-Regulated

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

European/International Regulations

European Labeling in Accordance with EC Directives

Risk Phrases:

R20/21/22 Harmful in contact with skin and if swallowed
R36/38 Irritating to eyes and skin
R43 May cause sensitization by skin contact

Safety Phrases:

S20/21 When using do not eat, drink or smoke
S2 Keep out of the reach of children.
S7 Keep container tightly closed.
S9 Keep container in a well-ventilated place
S24 Avoid contact with skin.

Section 16 - Additional Information

MSDS Creation Date: 10/15/12

Revision #1. RC 10/10/13

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