

# Safety Data Sheet

## HYDROQUINONE, 0.15% IN ACID WATER, pH 4.0

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Hydroquinone, 0.15% in Acid Water, pH 4.0

**Catalog Numbers:** A-111-6, A-118-5

**Company Identification:** Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.  
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

H302-Acute toxicity, oral: 4

H317-Sensitisation, skin: 1

H318-Serious eye damage/eye irritation: 1

H341-Germ cell mutagenicity: 2

H351-Carcinogenicity: 2

H400-Hazardous to the aquatic environment, acute toxicity: 1

H410-Hazardous to the aquatic environment, chronic toxicity: 1

#### Pictograms or Hazard Symbols and Hazard Statement(s):



Signal Word: Danger

## Hazard Statements:

H302-Harmful if swallowed  
H317-May cause an allergic skin reaction  
H318-Causes serious eye damage  
H341-Suspected of causing genetic defects  
H351-Suspected of causing cancer  
H400-Very toxic to aquatic life  
H410-Very toxic to aquatic life with long lasting effects

## Precautionary Statements:

P201-Obtain special instructions before use.  
P202-Do not handle until all safety precautions have been read and understood.  
P261-Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264-Wash thoroughly after handling.  
P270-Do not eat, drink, or smoke when using this product.  
P272-Contaminated work clothing should not be allowed out of the workplace.  
P273-Avoid release to the environment.  
P280-Wear protective gloves/eye protection/face protection.  
P281-Use personal protective equipment as required.  
P301+P312-If swallowed: Call a Poison Center or doctor/physician if you feel unwell.  
P302+P352-If on skin: Wash with plenty of soap and water.  
P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313-If exposed or concerned: Get medical advice/attention.  
P310-Immediately call a Poison Center or doctor/physician.  
P330-Rinse mouth.  
P333+P313-If skin irritation or rash occurs: Get medical advice/attention.  
P363-Wash contaminated clothing before reuse.  
P391-Collect spillage.  
P405-Store locked up.  
P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
123-31-9	Hydroquinone	0.15 w/v
77-92-9	Citric acid	< 0.1 v/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. Seek medical attention.

**Oral Exposure:** If swallowed, seek immediate medical advice. Rinse mouth with water. After cleaning mouth, drink water.

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

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

**Hazardous Combustion Products:** Carbon oxides.

**Flash Point:** Not available

**Auto ignition Temperature:** Not available

**Explosion Limits, Lower:** Not available

**Upper:** Not available

**NFPA Rating:** (estimated) Health: 2; Flammability: 0; Instability: 0

## Section 6 - Accidental Release Measures

### **Procedure(s) of Personal Precaution(s):**

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

**Methods for Cleaning up:** Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains. This material is very toxic to aquatic life with long lasting effects.

## Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Ensure adequate ventilation. Wash thoroughly after handling. Do not ingest or inhale. Avoid contact with skin, eyes, and clothing. Store in a tightly closed container in the refrigerator (4°C). Keep away from incompatible materials. Light sensitive.

## 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.

**Exposure Limits:**

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Hydroquinone CAS#123-31-9	1 mg/m3 TWA	2 mg/m3 Ceiling 50 mg/m3 IDLH	2 mg/m3 TWA

**OSHA Vacated PELs:** Hydroquinone: 2 mg/m3 TWA

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** Clear

**Odor:** Odorless

**Vapor Pressure:** Not available

**Odor threshold:** Not available

**Vapor Density:** Not available

**pH:** 4.0-5.0

**Relative density:** Not available

**Melting point/freezing point:** Not available

**Solubility:** Soluble in water

**Boiling Point:** Not available

**Flash point:** Not available

**Evaporation Rate:** Not available

**Flammability (solid, gas):** Not available

**Partition coefficient: n-octanol/water:** Not available

**Auto-ignition temperature:** Not available

**Decomposition temperature:** Not available

**Viscosity:** Not available

**Specific Gravity/Density:** Not available

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal pressures. Store in the refrigerator (4°C).  
**Conditions to Avoid:** Incompatible materials, ignition sources, excess heat, and freezing. Light sensitive.  
**Incompatibilities with Other Materials:** Strong oxidizing agents and strong bases.  
**Hazardous Decomposition Products:** Carbon oxides.

## Section 11 - Toxicological Information

**CAS#123-31-9 Hydroquinone: RTECS#: MX3500000**

LD50 Oral: 298 mg/kg (rat)  
LD50 Dermal: 74800 mg/kg (rabbit)  
LC50 Inhalation: Not available

**Carcinogenicity:** Hydroquinone CAS#123-31-9 is not listed by IARC, NTP, OSHA, or California Prop 65. Hydroquinone is listed by ACGIH (A3, Animal Carcinogen).

**Epidemiology:** Not available

**Teratogenicity:** Not available

**Reproductive Effects:** Experiments have shown reproductive toxicity effects on laboratory animals.

**Developmental Effects:** Not available

**Neurotoxicity:** Not available

**Mutagenicity:** Mutagenicity category 2

**Specific Target Organ Toxicity, Single Exposure:** Not available

**Specific Target Organ Toxicity, Repeated Exposure:** Not available

**Note:** Causes serious eye damage. May cause an allergic skin reaction.

**The toxicological properties of this material have not been thoroughly investigated.**

## Section 12 - Ecological Information

**Ecotoxicity:** Do not release to the environment. Do not release to drains. Very toxic to aquatic life with long-lasting effects.

**CAS#123-31-9 Hydroquinone:**

EC50, freshwater algae: 0.335 mg/L 72h (pseudokirchneriella subcapitata)  
LC50, freshwater fish: 0.17 mg/L 96h (brachydanio rerio)  
LC50, freshwater fish: 0.044 mg/L 96h flow-through (oncorhynchus mykiss)  
LC50, freshwater fish: 0.044 mg/L 96h flow-through (pimephales promelas)(fathead minnow)  
LC50, freshwater fish: 0.1-0.18 mg/L 96h static (pimephales promelas)(fathead minnow)  
EC50, microtox: 0.038 mg/L 15min  
EC50, microtox: 0.0382 mg/L 30min

EC50, microtox: 0.042 mg/L 5min  
EC50, microtox: 23.75 mg/L 60min  
EC50, water flea: 0.29 mg/L 48h (daphnia magna)

**Persistence and degradability:** Not available

**Bio-accumulative potential:** Not available

**Mobility:** Will likely be mobile in the environment due to its water solubility.

## Section 13 - Disposal Considerations

**DISPOSAL:** Dispose of in accordance with all federal, state, and local regulations.

## 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 SDS contains all the information required by the CPR.

## Section 16 - Additional Information

**SDS Creation Date:** 10-15-12

**Revision #1** 10-10-13 RC

**Revision #2.** 12-20-18

**Revision #3.** 2-22-22

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