

# Safety Data Sheet

## Hydroquinone, 0.15% in Acid Water, pH 3.2

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Hydroquinone, 0.15% in Acid Water, pH 3.2

**Catalog Numbers:** SO-547

**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

H317-Sensitisation, skin: 1

H341-Germ cell mutagenicity: 2

H351-Carcinogenicity: 2

H402-Hazardous to the aquatic environment, acute hazard: 3

H412-Hazardous to the aquatic environment, long-term hazard: 3

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



Signal Word: Warning

#### Hazard Statements:

H317-May cause an allergic skin reaction

H341-Suspected of causing genetic defects

H351-Suspected of causing cancer

H402-Harmful to aquatic life

H412-Harmful 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.

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

P273-Avoid release to the environment.

P280-Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352-If on skin: Wash with plenty of soap and water.

P308+P313-If exposed or concerned: Get medical advice/attention.

P333+P313-If skin irritation or rash occurs: Get medical advice/attention.

P362+P364-Take off contaminated clothing and wash it before reuse.

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
5949-29-1	Citric Acid Monohydrate	0.1 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. Get medical attention.

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

**Oral Exposure:** If swallowed, get immediate medical advice. Rinse mouth with water and drink small quantities of water (stop if the exposed person feels sick as vomiting may be dangerous).

**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, irritating and potentially hazardous fumes and gases.

**Flash Point:** Not available

**Autoignition 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.

## 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. Do not get on skin or clothing. Do not get in eyes. Keep in a tightly closed container. **Store in the refrigerator (4 °C).** Protect from heat. Light sensitive. 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.

**Exposure Limits:**

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA - Final PELs
Hydroquinone CAS#123-31-9	1 mg/m <sup>3</sup> TWA	2 mg/m <sup>3</sup> Ceiling 50 mg/m <sup>3</sup> IDLH	2 mg/m <sup>3</sup> TWA
Citric Acid Monohydrate CAS#5949-29-1	Not listed	Not listed	Not listed

**OSHA Vacated PELs:** Hydroquinone: 2 mg/m<sup>3</sup> TWA

Section 9 - Physical and Chemical Properties
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**Physical State:** Liquid

**Appearance:** Clear, colorless

**Odor:** Odorless

**Vapor Pressure:** Not available

**Odor Threshold:** Not available

**Vapor Density:** Not available

**pH:** 3.1-3.3

**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

**Autoignition Temperature:** Not available

**Decomposition Temperature:** Not available

**Viscosity:** Not available

**Specific Gravity/Density:** Not available

Section 10 - Stability and Reactivity
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**Chemical Stability:** Stable in closed containers under normal storage and handling conditions. **Keep refrigerated (4 °C).**

**Conditions to Avoid:** Incompatible materials and excess heat. Avoid exposure to light.

**Incompatibilities with Other Materials:** Strong oxidizing agents, strong bases, strong acids.

**Hazardous Decomposition Products:** Carbon oxides, irritating and potentially hazardous fumes and gases.

## Section 11 - Toxicological Information

### **CAS#123-31-9 Hydroquinone: RTECS#: MX350000**

LD50 Oral: 302 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).

### **CAS#5949-29-1 Citric Acid Monohydrate: RTECS#: GE7810000**

LD50 Oral: 5.79 g/kg (mouse)

LD50 Dermal: Not available

LC50 Inhalation: Not available

**Carcinogenicity:** Citric Acid Monohydrate CAS#5949-29-1 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

**Information on the likely routes of exposure:** Routes of entry anticipated: oral, dermal, inhalation, and eye.

**Epidemiology:** Not available.

**Teratogenicity:** Not available.

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

**Developmental Effects:** Not available.

**Neurotoxicity:** Not available.

**Mutagenicity:** Suspected of causing genetic defects (Hydroquinone).

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

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

**Symptoms associated with exposure:** Skin contact may cause sensitization. Skin contact may cause redness, irritation, dermatitis and/or depigmentation. May cause an allergic skin reaction. Symptoms of an allergic reaction may include rash, irritation, redness, itching, hives, swelling, burning sensation, trouble breathing, tingling of the hands/feet, dizziness, chest pain, muscle pain. Eye contact may cause redness, irritation, itching, watering, pain. Ingestion may cause nausea, vomiting, diarrhea, liver irregularities. Suspected of causing cancer. Suspected of causing genetic defects. Absorption into the body may cause kidney and liver damage. Onset may be delayed.

**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. Harmful to aquatic life with long-lasting effects.

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

LC50, freshwater fish: 0.638 mg/L 96h flow-through (oncorhynchus mykiss)(rainbow trout)  
EC50, water flea: 0.134 mg/L 48h semi-static (daphnia magna)  
ErC50, algae: 0.33 mg/L 72h static (pseudokirchneriella subcapitata)(green algae)

**CAS#77-92-9 Citric Acid (anhydrous substance):**

LC50, freshwater fish: 440-760 mg/L 96h (leuciscus idus)(golden orfe)  
EC50, water flea: 120 mg/L 72h (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:** 12-18-14 RC

**Revision #2:** 1-16-23

**Revision #3:** 6-13-24

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