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

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-Contamainated 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 of 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: 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
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 12-18-14 RC
Revision #2. 1-16-23

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