Section 1 - Chemical Product and Company Identification

MSDS Name:  
Hydroquinone, 1% w/v  
Catalog Numbers:  
LC15500  
Synonyms:  
None  
Company Identification:  
LabChem Inc  
200 William Pitt Way  
Pittsburgh, PA 15238  
Company Phone Number:  
(412) 826-5230  
Emergency Phone Number:  
(800) 424-9300  
CHEMTREC Phone Number:  
(800) 424-9300 or 011-703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>99</td>
</tr>
<tr>
<td>123-31-9</td>
<td>Hydroquinone</td>
<td>1</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

Emergency Overview

Appearance: colorless to light peach solution

Warning! May cause eye and skin irritation. May cause allergic skin reaction. May cause methemoglobinemia. May cause reproductive and fetal effects. May cause central nervous system effects.

Target Organs: eyes, skin, central nervous system

Potential Health Effects

Eye:  
May cause eye irritation. May cause irreversible brown staining.

Skin:  
May cause skin irritation. May cause allergic skin reaction. May be absorbed through the skin.

Ingestion:  
May cause gastrointestinal irritation. May cause dizziness, nausea, sense of suffocation, shortness of breath, vomiting, muscle twitching, cyanosis, delirium, and collapse. May cause liver damage leading to jaundice.
Material Safety Data Sheet
Hydroquinone, 1% w/v

**Inhalation:**
Inhalation of mists may cause respiratory tract irritation. May cause cyanosis, spasm, inflammation, edema, and chemical pneumonitis. May cause central nervous system effects similar to those of ingestion.

**Chronic:**
May cause sensitization dermatitis. May cause methemoglobinemia, rapid heart rate, and unconsciousness. May cause reproductive and fetal effects.

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**Section 4 - First Aid Measures**

**Eyes:**
Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

**Skin:**
Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid at once.

**Ingestion:**
Do not induce vomiting. Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid at once.

**Inhalation:**
Move victim to fresh air immediately. Get medical aid if irritation or other symptoms appear.

**Notes to Physician:**
Treat symptomatically and supportively.

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**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 and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:**
For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**
550°C (1022°F)

**Flash Point:**
Not available

**NFPA Rating:**
Health- 2, Flammability- 0, Instability- 0

**Explosion Limits:**
Lower: n/a Upper: n/a

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**Section 6 - Accidental Release Measures**

**General Information:**
Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:
Absorb spill with inert material such as sand, vermiculite, or diatomaceous earth, and transfer to a suitable container labeled for later disposal.

### Section 7 - Handling and Storage

**Handling:**
Wash thoroughly after handling. Do not ingest or inhale. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation.

**Storage:**
Store tightly capped in a cool, dry, well-ventilated area away from incompatible materials.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**
Facilities using or storing this material should be equipped with an eyewash and safety shower. Provide local exhaust or general dilution ventilation to keep airborne levels below the permissible exposure limits.

**Exposure Limits:**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>None listed</td>
<td>None listed</td>
<td>None listed</td>
</tr>
<tr>
<td>Hydroquinone</td>
<td>1 mg/m3 TWA</td>
<td>50 mg/m3 IDLH</td>
<td>2 mg/m3 TWA</td>
</tr>
</tbody>
</table>

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

**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. Do not wear contact lenses when working with chemicals.

**Skin:**
Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**
Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**
Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

### Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Colorless to light peach</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH</td>
<td>Acidic</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>3.8 (air= 1)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet
Hydroquinone, 1% w/v

Boiling Point: Not available
Freezing/Melting Point: Not available
Decomposition Temperature: Not available
Solubility in water: Soluble
Specific Gravity/Density: 1.0
Molecular Formula: Not available
Molecular Weight: Not available

Section 10 - Stability and Reactivity

Chemical Stability:
Stable under normal temperatures and pressures. Changes color when exposed to light and air.

Conditions to Avoid:
Incompatible materials, light.

Incompatibilities with Other Materials:
Strong oxidizers, strong bases.

Hazardous Decomposition Products:
Phenol, carbon monoxide, carbon dioxide.

Hazardous Polymerization:
Has not been reported.

Section 11 - Toxicological Information

RTECS:
CAS# 7732-18-5: ZC0110000
CAS# 123-31-9: MX3500000

LD50/LC50:
CAS# 7732-18-5:
  Oral, rat: LD50 = >90 mL/kg
CAS# 123-31-9:
  Oral, mouse: LD50 = 245 mg/kg
  Oral, rabbit: LD50 = 200 mg/kg
  Oral, rat: LD50 = 302 mg/kg

Carcinogenicity:
CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 123-31-9: Listed as A3 by ACGIH, and Group 3 by IARC.

Epidemiology:
Tumorigenic effects have occurred in laboratory animals. See actual entry in RTECS for complete information.

Teratogenicity:
Teratogenic effects have occurred in laboratory animals.

Reproductive:
No information found.

Mutagenicity:
No information found.

Neurotoxicity:
No information found.
Material Safety Data Sheet
Hydroquinone, 1% w/v

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: Not regulated
Hazard Class: 
UN Number: 
Packing Group: 

Section 15 - Regulatory Information

US Federal
TSCA:
CAS# 7732-18-5 is listed on the TSCA Inventory.
CAS# 123-31-9 is listed on the TSCA Inventory.
SARA Reportable Quantities (RQ):
CAS# 123-31-9: final RQ = 100 lb. (45.4 kg)
CERCLA/SARA Section 313:
This material contains Hydroquinone (CAS# 123-31-9, 1%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.
OSHA - Highly Hazardous:
None of the components are on this list.

US State
State Right to Know:
Hydroquinone can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.
California Regulations:
None

European/International Regulations
Canadian DSL/NDSL:
CAS# 7732-18-5 is listed on Canada's DSL List.
CAS# 123-31-9 is listed on Canada's DSL List.
Canada Ingredient Disclosure List:
CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.
CAS# 123-31-9 is listed on Canada's Ingredient Disclosure List.
Section 16 - Other Information

MSDS Creation Date: December 9, 1999
Revision Date: April 7, 2011

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