Material Safety Data Sheet
Phenol disulfonic acid solution

ACC# 88997

Section 1 - Chemical Product and Company Identification

**MSDS Name:** Phenol disulfonic acid solution  
**Product Grade:** SQ  
**Catalog Numbers:** 26345  
**Synonyms:** None  
**Company Identification:**  
Fisher Scientific  
Part of Thermo Fisher Scientific  
Thermo Fisher Scientific India Pvt. Ltd  
403-404, B-wing, Delphi,  
Hiranandani Business Park,  
Powai (E), Mumbai 400076, INDIA.

For information, call: 022 – 6680 3001/2, Call India Toll Free – 1800 209 7001
Emergency Number: 022-66803004/14
For CHEMTREC assistance, call: 800-424-9300 [International]
For International CHEMTREC assistance, call: 703-527-3887 [International]

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>96-77-5</td>
<td>Phenol disulfonic acid solution</td>
<td>25</td>
<td>202-533-6</td>
</tr>
<tr>
<td>7664-93-9</td>
<td>Sulfuric acid</td>
<td>75</td>
<td>231-639-5</td>
</tr>
</tbody>
</table>

Text for R-phrases: see Section 16  
Hazard Symbols: C  
Risk Phrases: 35  

Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**
Causes severe burns. Corrosive. Water-reactive.

**Potential Health Effects**
**Eye:** Contact with liquid is corrosive to the eyes and causes severe burns.  
May cause eye injury.  
**Skin:** Contact with liquid is corrosive and causes severe burns and ulceration.
**Ingestion:** May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract.

**Inhalation:** Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

**Chronic:** Repeated inhalation may cause chronic bronchitis. Repeated exposure may cause erosion of teeth.

### Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

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

**Ingestion:** Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Notes to 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 and highly toxic gases may be generated by thermal decomposition or combustion. Reacts violently with water.

**Extinguishing Media:**

Use water spray to cool fire-exposed containers. Use extinguishing media most appropriate for the surrounding fire. If water is the only media available, use in flooding amounts.

### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section. Cover with sand, dry lime or soda ash and place in a closed container for disposal. Isolate area and deny entry. Provide ventilation.
Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Avoid contact with clothing and other combustible materials. Do not get on skin or in eyes. Do not ingest or inhale.
Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: 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.

Exposure Limits
CAS# 96-77-5:
CAS# 7664-93-9:
United States OSHA: 1 mg/m3 TWA
Belgium - TWA: 1 mg/m3 VLE
Belgium - STEL: 3 mg/m3 VLE
France - VME: 1 mg/m3 VME
France - VLE: 3 mg/m3 VLE
Germany: 0.5 mg/m3 TWA (inhalable fraction, battery manufacture, metal working in a close
Japan: 1 mg/m3 Ceiling
Malaysia: 1 mg/m3 TWA
Netherlands: 1 mg/m3 MAC
Russia: 1 mg/m3 TWA
Spain: 1 mg/m3 VLA-ED
Spain: 3 mg/m3 VLA-EC

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 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 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Section 9 - Physical and Chemical Properties

**Physical State:** Liquid  
**Color:** Light pink  
**Odor:** None reported.  
**pH:** Not available  
**Vapor Pressure:** Not available  
**Viscosity:** Not available  
**Boiling Point:** Not available  
**Freezing/Melting Point:** Not available  
**Autoignition Temperature:** Not applicable  
**Flash Point:** Not applicable  
**Explosion Limits: Lower:** Not available  
**Explosion Limits: Upper:** Not available  
**Decomposition Temperature:** Not available  
**Solubility in water:** Reacts with water.  
**Specific Gravity/Density:** 1.40  
**Molecular Formula:** Mixture  
**Molecular Weight:** 0

Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Incompatible materials, combustible materials.  
**Incompatibilities with Other Materials:** Not available  
**Hazardous Decomposition Products:** Carbon monoxide, oxides of sulfur, carbon dioxide.  
**Hazardous Polymerization:** Has not been reported.

Section 11 - Toxicological Information

**RTECS#:** 
CAS# 96-77-5 unlisted.  
CAS# 7664-93-9: WS5600000  
LD50/LC50:  
Not available  
CAS# 7664-93-9: Draize test, rabbit, eye: 250 ug
Severe: Inhalation, mouse: LC50 = 320 mg/m3/2H; Inhalation, mouse: LC50 = 320 mg/m3; Inhalation, rat: LC50 = 510 mg/m3/2H; Inhalation, rat: LC50 = 510 mg/m3; Oral, rat: LD50 = 2140 mg/kg.

Carcinogenicity:
- Phenol disulfonic acid solution - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
- Sulfuric acid - ACGIH: A2 - Suspected Human Carcinogen (contained in strong inorganic acid California: carcinogen, initial date 3/14/03 (Strong inorganic acid mists contai NTP: Known carcinogen (Strong inorganic acid mists containing s). IARC: Group 1 carcinogen Other: See actual entry in RTECS for complete information.

### Section 12 - Ecological Information
Not available

### Section 13 - Disposal Considerations
Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local authority or advice. Empty containers must be decontaminated before returning for recycling.

### Section 14 - Transport Information

**IATA**
- Shipping Name: PHENOLSULPHONIC ACID, LIQUID
- Hazard Class: 8
- UN Number: 1803
- Packing Group: II

**IMO**
- Shipping Name: PHENOLSULPHONIC ACID, LIQUID
- Hazard Class: 8
- UN Number: 1803
- Packing Group: II

**RID/ADR**
- Shipping Name: PHENOLSULPHONIC ACID, LIQUID
- Hazard Class: 8
- UN Number: 1803
- Packing Group: II
Section 15 - Regulatory Information

European/International Regulations
   European Labeling in Accordance with EC Directives
Hazard Symbols: C
Risk Phrases: R 35 Causes severe burns.
Safety Phrases:
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 30 Never add water to this product.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
WGK (Water Danger/Protection)
   CAS# 96-77-5: Not available
   CAS# 7664-93-9: 2

Canada
CAS# 96-77-5 is listed on Canada's NDSL List
CAS# 7664-93-9 is listed on Canada's DSL List
US Federal
   TSCA
   CAS# 96-77-5 is listed on the TSCA Inventory.

CAS# 7664-93-9 is listed on the TSCA Inventory.

Section 16 - Additional Information

Text for R-phrases from Section 2
R 35 Causes severe burns.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.