1. PRODUCT AND COMPANY IDENTIFICATION

Product Name
Phenol, Saturated Solution

Product Code(s)
0945

UN-No
2821

Distributor
AMRESCO INC.
6681 Cochran Road
SOLON, OHIO  44139

Company Phone Number
1-800-829-2805

Emergency Telephone Number
Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview
Highly toxic
Corrosive
Combustible

Appearance Clear, Two-Layer
Physical State Liquid
Odor Phenolic, Medicinal

Potential Health Effects

Acute Toxicity

Eyes Corrosive.

Skin Very toxic in contact with skin. Corrosive, causes burns.
readily absorbed through skin.

Inhalation Very toxic by inhalation. Corrosive, causes burns.

Ingestion Very toxic if swallowed. Corrosive, causes burns.

Chronic Effects
No known effect based on information supplied.

Aggravated Medical Conditions
None known.

Environmental Hazard
See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
<td>95-100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Eye Contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact
Wash skin with soap and water.

Inhalation
Move to fresh air. If breathing becomes difficult, give oxygen.

Ingestion
Clean mouth with water and afterwards drink plenty of water.

Notes to Physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties
combustible liquid.

Flash Point
Not determined

Suitable Extinguishing Media
Dry chemical, CO2, water spray or regular foam.

Hazardous Combustion Products
Carbon oxides

Explosion Data
Sensitivity to Mechanical Impact
Not sensitive.

Sensitivity to Static Discharge
Not sensitive.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up
Cover with dry lime or soda ash. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling
Handle in accordance with good industrial hygiene and safety practice. Light Sensitive.

Storage
Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol 108-95-2</td>
<td>TWA: 5 ppm</td>
<td>TWA: 19 mg/m³</td>
<td>IDLH: 250 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 5 ppm</td>
<td>Ceiling: 15.6 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) TWA: 19 mg/m³</td>
<td>Ceiling: 60 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin</td>
<td>TWA: 19 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 5 ppm</td>
</tr>
</tbody>
</table>

Engineering Measures
Showers
Eyewash stations
Ventilation systems.
Personal Protective Equipment

**Eye/Face Protection**
Tightly fitting safety goggles.

**Skin and Body Protection**
Wear protective gloves/clothing.

**Respiratory Protection**
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear Two-Layer</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor</td>
<td>Phenolic, Medicinal</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Stability**
Stable under recommended storage conditions.

**Incompatible Products**

**Conditions to Avoid**
Protect from light.

**Hazardous Decomposition Products**
Carbon oxides.

**Hazardous Polymerization**
Hazardous polymerization does not occur.

### 11. TOXICOLOGICAL INFORMATION

#### Acute Toxicity

**Product Information**
Very toxic by inhalation, in contact with skin, or if swallowed. Corrosive, causes burns.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol</td>
<td>317 mg/kg ( Rat )</td>
<td>525 mg/kg ( Rat )</td>
<td>316 mg/m³ ( Rat ) 4 h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>630 mg/kg ( Rabbit )</td>
<td></td>
</tr>
</tbody>
</table>

#### Chronic Toxicity

**Target Organ Effects**
Kidney, Liver, Central nervous system (CNS)

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
Harmful to aquatic organisms.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Microtox</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol</td>
<td>EC50 = 150 mg/L L 96 h</td>
<td>LC50 = 12 mg/L Oncorhynchus mykiss 96 h</td>
<td>EC50 = 21 - 36 mg/L 30 min</td>
<td>LC50 = 13 mg/L 48 h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 = 23.88 mg/L Lepomis macrochirus 96 h</td>
<td>EC50 = 23.28 mg/L 5 min</td>
<td>EC50 = 23.0 mg/L 48 h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 = 24 mg/L Pimephales promelas 96 h</td>
<td>EC50 = 25.61 mg/L 15 min</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 = 27.8 mg/L Brachydanio rerio 96 h</td>
<td>EC50 = 28.8 mg/L 5 min</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 = 40 mg/L Poecilia reticulata 96 h</td>
<td>EC50 = 31.6 mg/L 15 min</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 = 8.9 mg/L Oncorhynchus mykiss 96 h</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol</td>
<td>1.47</td>
</tr>
</tbody>
</table>

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method**
Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging**
Dispose of in accordance with all federal, state and local regulations.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol - 108-95-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>U188</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol</td>
<td>Toxic; Corrosive</td>
</tr>
</tbody>
</table>

**14. TRANSPORT INFORMATION**

**DOT**
- **Proper Shipping Name**: PHENOL SOLUTION
- **Hazard Class**: 6.1
- **UN-No**: 2821
- **Packing Group**: II

**IATA**
- **UN-No**: 2821
- **Proper Shipping Name**: PHENOL SOLUTION
- **Hazard Class**: 6.1
- **Packing Group**: II

**15. REGULATORY INFORMATION**

**International Inventories**
- **TSCA**: Complies
- **DSL**: Complies
- **EINECS/ELINCS**: Complies
U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
<td>95-100</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
- Acute Health Hazard: Yes
- Chronic Health Hazard: No
- Fire Hazard: Yes
- Sudden Release of Pressure Hazard: No
- Reactive Hazard: No

Clean Water Act
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

<table>
<thead>
<tr>
<th>Component</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol</td>
<td>1000 lb</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>108-95-2 (95-100)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>HAPS data</th>
<th>VOC Chemicals</th>
<th>Class 1 Ozone Depletors</th>
<th>Class 2 Ozone Depletors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
<td>95-100</td>
<td>Present</td>
<td>Group III</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CERCLA

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol</td>
<td>1000 lb</td>
<td>1000 lb</td>
</tr>
</tbody>
</table>

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

International Regulations

Mexico - Grade
Chemical Name | Carcinogen Status | Exposure Limits
--- | --- | ---
Phenol |  | Mexico: TWA= 19 mg/m³
Canada

WHMIS Hazard Class
Not determined

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NPRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol</td>
<td>X</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Issuing Date 06/04/10

Revision Note No information available.

Disclaimer
The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS