**Ingredient**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Conc.</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHENOL</td>
<td>10 - 29%</td>
<td>108-95-2</td>
</tr>
<tr>
<td>WATER</td>
<td>30 - 60%</td>
<td>7732-18-5</td>
</tr>
<tr>
<td>LACTIC ACID</td>
<td>10 - 29%</td>
<td>50-21-5</td>
</tr>
<tr>
<td>GLYCEROL</td>
<td>10 - 29%</td>
<td>56-81-5</td>
</tr>
</tbody>
</table>

**Synonyms**

COTTON BLUE, FRONINE LACTO COTTON BLUE.

**Appearance**

CLEAR DARK BLUE LIQUID

**Odour**

PHENOLIC ODOUR

**Use(s)**

LABORATORY REAGENT, LABORATORY APPLICATIONS.

**Supplier**

FRONINE LABORATORY SUPPLIES Ph: 02 9627 3600 Emerg. Ph: 13 11 26

**Stock No.**

474.

**Poison Sched**

6

**Hazchem**

None Allocated

**UN No.**

None Allocated

**D.G Class**

None Allocated

**Pkg Group**

None Allocated

**EPG**

None Allocated

**Sub/Tert Risk**

None Allocated

**HEALTH HAZARDS**

**Health Hazard Summary**

Moderately to Highly toxic - corrosive. Use safe work practices to avoid all eye or skin contact and vapour generation/inhalation. Chronic or high acute exposure may result in vomiting, diarrhoea, lack of appetite, dark urine, skin rashes - discoloration, kidney, liver, lung damage and death.

**Eye**

Highly corrosive - severe irritant. Contact may result in pain, lacrimation, redness, conjunctivitis, corneal burns and ulceration with possible permanent damage.

**Inhalation**

Corrosive - severe irritant. Over exposure may result in upper respiratory tract irritation, nausea and headache. Chronic exposure may result in liver and kidney damage. Low vapour pressure reduces the inhalation hazard.

**Skin**

Corrosive - highly toxic. Contact may result in whitening of skin, not causing pain, but may cause severe burns, with toxic effects from skin absorption which can lead to death.

**Ingestion**

Toxic. Ingestion may result in extensive burns to the mouth and throat, liver and kidney damage, dark urine, bloody diarrhoea, unconsciousness, convulsions and death.

**PRECAUTIONS**

**Flammability**

Non flammable. May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.

**Reactivity**

Incompatible with oxidising agents (eg. hypochlorites, peroxides) and acids (eg. nitric acid). May attack some forms of rubber & plastic coatings. When hot may attack aluminium, magnesium, lead and zinc.

**Ventilation**

Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical explosion proof extraction ventilation is recommended.

**PERSONAL PROTECTIVE EQUIPMENT**

**PPE**

Wear a PVC apron, full-length butyl or full-length neoprene gloves, impervious coveralls, a faceshield and rubber boots. Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator. At high vapour levels, wear an Air-line respirator.
**FIRST AID**

- **Eye**
  Hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre, or for at least 15 minutes.

- **Inhalation**
  Leave area of exposure. If symptoms develop, seek urgent medical attention. If assisting a victim, avoid becoming a casualty. Wear a Type A (Organic vapour) respirator (or an Air-line respirator in poorly ventilated areas). If victim not breathing, apply artificial respiration and seek urgent medical attention.

- **Skin**
  Wearing gloves, remove contaminated clothing and wash thoroughly with soap and water, then methylated spirits. Seek medical attention if irritation develops. Launder clothing before reuse.

- **Ingestion**
  For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor. If swallowed, do not induce vomiting.

**SAFE HANDLING**

- **Storage**
  Store in cool, dry, well ventilated area, removed from oxidising agents (e.g., hypochlorites), acids (sulfuric acid), heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems.

- **Waste Disposal**
  Solutions of 1% can be steam stripped, distilled or put over activated carbon to recover phenol economically. Low concentrations can be biodegraded by sewage organisms but high concentrations will kill the microorganisms. May be incinerated. Contact the manufacturer for further information if large disposing of large volumes.

- **Transport**
  Not regulated for transport purposes.

**EMERGENCY**

- **Spillage**
  If spill (bulk), contact emergency services if appropriate. Wear butyl/neoprene gloves, a Type A (Organic vapour) respirator (or an Air-line respirator in confined areas), impervious coveralls and boots. Ventilate and clear area of all unprotected personnel. Eliminate all heat and ignition sources. Cover with sand or similar and place in clean containers for disposal. Prevent contamination of drains or waterways.

- **Environment**
  WATER: If released to water phenol is toxic to fish, microorganisms & plants. Biodegrades in water (half-life ~hrs to days). Not expected to bioconcentrate in aquatic organisms. SOIL: Rapidly biodegrades (half life <5 days) except in spills of high concentrations which destroy degrading microbial populations. ATMOSPHERE: Reacts with hydroxyl radicals causing decomposition (half-life ~15 hours).

- **Fire and Explosion**
  Non flammable. If product is present in a fire, toxic gases (carbon oxides, hydrocarbons) may be evolved. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

- **Extinguishing**
  Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.

**PHYSICAL AND CHEMICAL PROPERTIES**

- **Flammability:** NON FLAMMABLE
- **Boiling Point:** NOT AVAILABLE
- **Exposure Standard:** 1 ppm Phenol
- **pH:** NOT AVAILABLE
- **Specific Gravity:** NOT AVAILABLE
- **Vapour Pressure:** NOT AVAILABLE
- **Lower Explosion Limit:** NOT RELEVANT
- **Flash Point:** NOT RELEVANT
- **Melting Point:** NOT RELEVANT
- **Evaporation Rate:** NOT AVAILABLE
- **% Volatiles:** NOT AVAILABLE
- **Solubility (water):** SOLUBLE
- **Upper Explosion Limit:** NOT RELEVANT