

Medical Chemical Corp.  
19430 Van Ness Ave.  
Torrance, CA 90501

Customer Service: Phone (310)787-6800  
FAX (310)787-4464

CHEMTREC Emergency Response Telephone Number: (800)424-9300

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

### Section I - Product Identification

An aqueous solution of phenol, lactic acid and phenol.

### Section II - Hazards Identification

Danger. Fatal if swallowed. Wash thoroughly after handling. Do not eat drink or smoke while using this product. If swallowed, immediately call a poison center and rinse mouth with water.

#### Safety Ratings

*Health:* Hazardous *Flammability:* None *Reactivity:* Slight *Contact:* Slight

Recommended safety equipment: safety goggles, lab coat and proper gloves

*Storage:* Room Temperature away from sources of ignition.

#### NFPA Ratings

Health = 2 Flammability = 0 Reactivity = 1



#### Potential Health Effects

Phenol is absorbed through intact skin and is highly toxic by ingestion, inhalation or contact. Gastrointestinal effects include: nausea, pain, bloody vomitus and diarrhea. Corrosive to skin and mucous membranes.

*Inhalation:* Phenol is absorbed through the mucous membranes and will produce irritation as well as the same effects as ingestion.

*Ingestion:* Inhalation will produce CNS disturbance, dizziness, photophobia, headache, stupor, coma and death. Phenol is very toxic.

*Skin contact:* Contact with phenol will cause chemical burns.

*Eye contact:* Even brief contact can cause irreversible eye damage.

*Chronic Exposure:* Unknown

*Aggravation of preexisting conditions:* Unknown

### Section III - Composition/Information on Components

Ingredients	CAS#	OSHA Pel	ACGIH TLV	Other Limits	%
Phenol	108-95-2	5 ppm (Skin) TWA	5 ppm (Skin) TWA		21% w/v
Lactic acid	50-21-5	-----	-----		21% w/v
Glycerin	56-81-5	5 mg/m <sup>3</sup> (mist)	TWA 10 mg/m <sup>3</sup>		50% w/v

### Section IV - First Aid Measures

*Inhalation:* Remove from source of exposure and get medical attention for any breathing difficulty.

*Ingestion:* Never give anything by mouth to a unconscious person. If the victim is conscious administer about 1 oz. of castor oil or vegetable oil. Get immediate medical attention even if symptoms improve.

*Skin Contact:* In case of skin contact, remove contaminated clothing and flush with water. Wash affected area with soap and water. Get medical advice.

*Eye Contact:* In case of eye contact, flush with water for at least 15 minutes and get immediate medical attention.

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## Section V - Fire Fighting Measures

*Flash point:* Not applicable.

*Flammable Limits:* Not applicable.

*Explosion:* Not normally an explosion hazard.

*Fire Extinguishing Media:* Alcohol type foam, carbon dioxide or dry chemical.

*Special information:* Pyrolysis will release phenol and toxic oxides such as carbon monoxide.

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## Section VI - Accidental Release Measures

Remove all sources of ignition, absorb with a suitable absorbent (such as paper towels) and dispose.

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## Section VII - Handling and Storage

Store in a closed container at controlled room temperature. Store locked up.

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## Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section III.

*Ventilation System:* Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

*Skin protection:* Protective gloves are recommended as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are recommended as part of good laboratory practice.

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## Section IX - Physical and Chemical Properties

*Boiling Point:* 112°C

*Vapor pressure (mm Hg):* Unknown

*Vapor Density (air = 1):* 3.2

*Appearance and Odor:* A clear solution with the characteristic odor of phenol.

*Density:* 1.16 g/ml

*Evaporation Rate (Water = 1):* 1

*Solubility:* Infinitely miscible with water

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## Section X - Stability and Reactivity

*Stability:* Freezes at very low temperature.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Oxidizers.

*Conditions to avoid:* heat, flame and sources of ignition.

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## Section XI - Toxicological Information

Cancer lists

<u>Ingredient</u>	<u>Known Carcinogenicity?</u>	<u>NTP?</u>	<u>Anticipated?</u>	<u>IARC Category</u>
Phenol	no	no	no	3
Lactic Acid	no	no	no	none
Glycerine	no	no	no	none

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## Section XII - Ecological Information

*Environmental Fate:* Biodegradable

*Environmental Toxicity:* Unknown, but expected to be toxic to aquatic organisms.

Ethanol evaporates quickly and is not expected to bioaccumulate. The half-life for ethanol in the atmosphere is one to ten days.

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## Section XIII - Disposal Considerations

Incineration is the preferred disposal method. Local governments often restrict the amount of phenol that may be flushed down drain. Dispose of contents and container in accordance with all government regulations.

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**Section XIV - Transportation information**

DOT Shipping name: Phenol Solution      DOT Hazard Class: 6.1    Packing Group: II  
Hazard Label: Poison                      DOT Identification Number: UN2821

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**Section XV - Regulatory Information****Chemical Inventory Status**

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<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Phenol	Yes	Yes
Lactic Acid	Yes	Yes
Glycerine	Yes	Yes

**Federal, State and International Regulations**

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<u>SARA 302</u>	<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>			
<u>Ingredient</u>	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	<u>Ca. Prop 65</u>
Phenol	1000	500	Yes	No	U188	No	No
Lactic Acid	No	No	No	No	No	No	No
Glycerine	No	No	No	No	No	No	No

Chemical Weapons Convention: No    TSCA 12(b): No    CDTA: Yes

SARA 311/312: Acute: Yes, Chronic: Yes, Flammable: No

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**Section XVI - Other Information**

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

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