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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 1 - Product Identification

An aqueous solution of phenol, lactic acid and phenol.

Section II - 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 ³ (mist) | TWA 10 mg/m ³ | | 50% w/v |

Section III - Hazards Identification

Overview: 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.

Safety Ratings

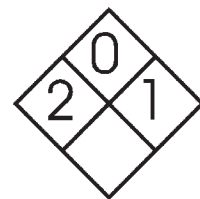
Health: Hazardous *Flammability:* None *Reactivity:* Slight *Contact:* Slight

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

The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other solutions of phenolics.

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 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.

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.

Section VI - Accidental Release Measures

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

Section VII - Handling and Storage

Store in a closed container at controlled room temperature.

Section VIII - Exposure Control/Personal Protection

Airborne Exposure Limits: See section II

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.

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

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.

Section XI - Toxicological Information

| Cancer lists | Known Carcinogenicity? | NTP? | Anticipated? | IARC Category |
|--------------|------------------------|------|--------------|---------------|
| Ingredient | | | | |
| Phenol | no | no | no | 3 |
| Lactic Acid | no | no | no | none |
| Glycerine | no | no | no | none |

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.

Section XIII - Disposal

Incineration is the preferred disposal method. Local governments often restrict the amount of phenol that may be flushed down drain. Insure compliance with all government regulations.

Section XIV - Transportation information

DOT Shipping name: Phenol Solution

DOT Hazard Class: 6.1

Packing Group: II

Hazard Label: Poison

DOT Identification Number: UN2821

Section XV - Regulatory Information

Chemical Inventory Status

| Ingredient | TSCA | EC |
|-------------|------|-----|
| Phenol | Yes | Yes |
| Lactic Acid | Yes | Yes |
| Glycerine | Yes | Yes |

Federal, State and International Regulations

| SARA 302 Ingredient | SARA 313 | | RCRA List | TSCA Category | 261.33 | 8(D) |
|------------------------|----------|-----|--------------|------------------|--------|------|
| | RQ | TPQ | | | | |
| Phenol | 1000 | 500 | Yes | No | U188 | No |
| Lactic Acid | No | No | No | No | No | No |
| Glycerine | 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

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.

Prepared by: P. B.

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