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## Section I - Product Identification

*Product:* An aqueous solution of glycerin, phenol, lactic acid and aniline blue. Aniline blue is a mixture of dyes and is predominately methyl blue (CI #42780) but also contains cotton blue and water blue.

*Intended Use:* Normally used as an in-vitro fungal stain.

*Uses advised against:* For laboratory use only.

### Manufacturer Identification

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

Customer Service: Phone (310)787-6800  
Email. Christinaavena@med-chem.com  
FAX (310)787-4464

### Emergency Telephone Number

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 II - Hazard Identification

This item is considered hazardous by 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and CLP Regulation ((EC) No 1272/2008).

**Eye damage/eye irritation:** Category 1 (H318). Causes serious eye damage.

**Acute toxicity (Oral):** Category 4 (H302). Harmful if swallowed.

**Acute toxicity (inhalation):** Category 4 (H332). Harmful if inhaled.

**Skin corrosion/irritation:** Category 1B (H314). Causes severe skin burns and eye damage.

**Germ cell mutagenicity:** Category 2 (H341). Suspected of causing genetic defects.

**Specific target organ toxicity:** Category 2 (H373). Causes damage to organs through prolonged or repeated exposure.

**Signal word:** Danger

### Hazard statements

The toxicology of this compound have not been completely examined. Lactic acid and phenol are corrosive to the eye and skin. Phenol is toxic by ingestion or absorption

P102 Keep out of reach of children.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

### Safety Ratings

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

*Recommended safety equipment:* Not normally required.

### NFPA Ratings

Health = 3 Flammability = 0 Reactivity = 0

### Potential Health Effects

Inhalation, ingestion or skin contact with material may cause severe injury or death. 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:* Inhaling the dry powder or droplets of the solution will cause ulceration of the structures in the respiratory tract and can cause pulmonary edema.

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

*Skin contact:* Contact with the skin will cause chemical burns.

*Eye contact:* Causes serious eye damage.

*Chronic Exposure:* Repeated or prolonged contact with skin may cause dermatitis.

*Aggravation of preexisting conditions:* Unknown.

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### Section III - Composition/Information on Components

Ingredient	CAS#	EC/List No.	% w/w
Glycerine	56-81-5	200-289-5	43%
Phenol	108-95-2	203-632-7	18%
Lactic acid	50-21-5	200-018-0	18%
Aniline blue	28983-56-4	249-352-9	0.04%

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### Section IV - First Aid Measures

Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance; this is irrespective of the recommendation involving the wearing of eye protection.

*Inhalation:* Remove from source of exposure and get immediate medical attention.

*Ingestion:* Rinse mouth with water but do not induce vomiting. Get immediate medical attention. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

*Skin Contact:* Remove contaminated clothing and launder before reuse. Wash affected area with soap and water. Get medical advice if irritation develops.

*Eye Contact:* Remove contact lenses if possible and rinse well with water. Get immediate medical advice.

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### Section V - Fire Fighting Measures

*Flash point:* Not applicable.

*Flammable Limits:* Not applicable.

*Fire:* Not normally a fire hazard.

*Explosion:* Not normally an explosion hazard.

*Fire Extinguishing Media:* Any means suitable for surrounding fire.

*Special information:* Pyrolysis will liberate toxic and corrosive fumes of phenol and other organic compounds.

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### Section VI - Accidental Release Measures

Absorb with a suitable absorbent and store in a suitable container for disposal.

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### Section VII - Handling and Storage

P403+P233+P102; Store in a well-ventilated place. Keep container tightly closed. Keep out of reach of children. Store away from foodstuffs.

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### Section VIII - Exposure Control/Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerine	10 mg/m <sup>3</sup> TWA (mist)	15 mg/m <sup>3</sup> TWA (mist)	Not applicable
Phenol	5 ppm (TWA)	19 mg/m <sup>3</sup> (TWA)	250 ppm
Lactic acid	Not regulated	Not regulated	Not regulated
Aniline blue	No data	No data	No data

#### Legend

**ACGIH:** American Conference of Governmental Industrial Hygienists.

**OSHA:** Occupational Safety and Health Administration.

**NIOSH:** National Institute for Occupational Safety and Health.  
**IDLH:** Immediately dangerous to life or health.

*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 required as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are required.

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### Section IX - Physical and Chemical Properties

*Boiling Point:* 112 °C

*Density:* 1.15 g/ml

*Vapor pressure (mm Hg):* Unknown

*Evaporation Rate (water = 1):* 1

*Vapor Density (air = 1):* Unknown

*Solubility:* Infinitely miscible with water

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

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### Section X - Stability and Reactivity

*Stability:* Stable under normal conditions.

*Hazardous Decomposition Products:* The manufacture is unaware of any.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Reacts with organic material.

*Conditions to avoid:* Excessive cold and heat.

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### Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycerine	12.6 g/kg (Rat)	Not applicable	570mg/m <sup>3</sup> /h
Phenol	317 mg/kg (Rat)	630 mg/kg (Rabbit)	900 mg/m <sup>3</sup> /8h (Rat)
Lactic acid	3543 mg/kg (Rat)	200 mg/kg (Rabbit)	No data
Aniline blue	No data	No data	No data

### Cancer lists

<i>Ingredient</i>	<i>Known Carcinogenicity?</i>	<i>NTP?</i>	<i>Anticipated?</i>	<i>IARC Category</i>
Glycerine	No	No	No	None
Phenol	No	No	No	3
Lactic acid	No	No	No	None
Aniline blue	No	No	No	None

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### Section XII - Ecological Information

This product is expected to bioaccumulate. The product does not contain endocrine disrupters or ozone depleters.

**Soil Mobility:** Unknown

**Environmental Fate:** Biodegradable

**Environmental Toxicity:** (H412) Harmful to aquatic life with long lasting effects.

Component	Freshwater Fish	Water Flea	Freshwater algae
Glycerine	No data	No data	No data
Phenol	LC50 25 mg/l 48 h	EC50 12 mg/l 24 h	EC50 370 mg/l 96 h
Lactic acid	No data	No data	No data
Aniline blue	No data	No data	No data

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**Section XIII - Disposal Considerations**

Most local authorities will restrict the drain disposal of phenol solutions. Insure compliance with all government regulations.

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**Section XIV - Transportation Information**

DOT Shipping name: Phenol Solutions DOT Hazard Class: 6.1 Packing Group: III

Hazard Label: Poison DOT Identification Number: UN2821

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

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Glycerine	Yes	Yes
Phenol	Yes	Yes
Lactic acid	Yes	Yes
Aniline blue	Yes	Yes

**Federal and State Regulations**

<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	<u>Ca. Prop 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	
Glycerine	No	No	No	No	No	No	No
Phenol	No	10000	Yes	108-95-2	U188	Yes	No
Lactic acid	No	No	No	No	No	No	No
Aniline blue	No	No	No	No	No	No	No

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

SARA 311/312: *Acute*: Yes, *Chronic*: Yes, *Fire*: Yes, *Pressure*: No

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**Section XVI - Other Information**

This information is believed to be correct at the time of publication but is not guaranteed as such, nor does it purport to be all inclusive. Medical Chemical Corp. assumes no liability for the accuracy or completeness of the information. The user assumes all responsibility for compliance with federal, state and local laws.

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