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Section I - Product Identification

Product: This product is an acid fast stain consisting of auramine O, rhodamine B, phenol, glycerine and reagent alcohol in water.

Intended Uses: Auramine O staining solution is used for determining acid fastness in acid fast bacteria.

Uses advised against: This product should be used by trained laboratory professionals. Reagent alcohol is toxic and can not be made non-toxic.

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)

Flammable liquid: Category 3 (H226). Flammable liquid and vapor.

Eye damage/eye irritation: Category 2A (H319). Causes serious eye irritation.

Acute toxicity (Oral): Category 4 (H301). Toxic if swallowed.

Acute toxicity (Inhalation): Category 4 (H331). Toxic if inhaled.

Acute toxicity (Dermal): Category 4 (H311). Toxic in contact with skin.

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

Carcinogenicity: Category 2 (H351). Suspected of causing cancer.

Mutagen: 2 (H341). Suspected of causing genetic defects.

Signal word: Warning

Hazard statements: flammable liquid and vapor. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Keep container tightly closed. Use only non-sparking tools. Take precautions against static discharge. Wear protective clothes and eye protection. In case of skin contact immediately remove all contaminated clothing. Rinse with water or shower. In case of fire, use fire extinguishers approved for alcohol fires. Phenol and methanol are toxic by inhalation, absorption or ingestion. Suspected of causing genetic defects.

Precautionary statements

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.

P271 Use only outdoors or in a well-ventilated area.

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

P405 Store locked up.

Safety Ratings

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

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

Storage: Keep cool, away from sources of ignition in a well ventilated area.

NFPA Ratings

Health = 2 Flammability = 2 Reactivity = 1

Potential Health Effects

The toxicology of this solution has not been completely examined. It is presumed that the toxicity of this item is similar to that of other solutions of diphenylmethane and xanthene dyes. Both auramine O and rhodamine O are suspected carcinogens.

Inhalation: Alcohols are absorbed through the mucous membranes and will produce irritation as well as the same effects as ingestion. Phenol is toxic by inhalation.

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

Skin contact: Alcohols are absorbed through the skin. Repeated contact causes defatting of the skin with resultant irritation and flaking. Phenol is corrosive to skin.

Eye contact: May be irritating. Phenol can cause severe eye damage

Chronic Exposure: Unknown.

Aggravation of preexisting conditions: Impaired kidney and liver function may be aggravated by exposure to alcohols. Preexisting eye, skin, and respiratory conditions may also be aggravated.

Section III - Composition/Information on Components

Ingredients	CAS #	EC/List Number	%
Glycerine	56-81-5	200-289-5	75% w/v
Ethanol	64-17-5	200-578-6	10% w/v
Isopropanol	67-63-0	200-661-7	0.5% w/v
Methanol	67-56-1	200-659-6	0.5% w/v
Phenol	108-95-2	203-632-7	9% w/v
Auramine O	2465-27-2	219-567-2	0.1% w/v
Rhodamine B	81-88-9	201-383-9	0.6% w/v

Section IV - First Aid Measures

General Advice: Contact a doctor if symptoms persist

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

Ingestion: Do not induce vomiting. Aspiration of alcohol into the lungs may produce death. 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 if irritation develops. Phenol causes skin lesions that are slow to heal.

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

Section V - Fire Fighting Measures

Fire Extinguishing Media: Alcohol foam, carbon dioxide or dry chemical. Water is ineffective against alcohol fires but may be used to cool adjacent containers.

Flash point: 44 °C (111 °F) TCC

Flammable Limits (for ethanol): LEL 3% UEL 19%

Flammable Limits (for methanol): LEL 6% UEL 36.5%

Flammable Limits (for isopropanol): LEL 2% UEL 12%

Specific Hazards: Risk of vapor traveling to source of ignition and flashing back. Risk of exploding containers when heated. Vapor in air may form explosion risk.

Special information: Pyrolysis will release toxic carbon monoxide, formaldehyde and methanol.

Special protective gear and precautions: Self contained breathing apparatus and protective gear recommended.

Section VI - Accidental Release Measures

Use personal protective gear, remove all sources of ignition, absorb with a suitable absorbent and dispose. Take precautions against static ignition. Should not be released into the environment.

Section VII - Handling and Storage

P403+P233+P102+P405; Store in a well-ventilated place. Keep container tightly closed. Keep out of reach of children. Store away from foodstuffs. Store locked up.

Section VIII - Exposure Control/Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerine	10 mg/m ³ (TWA)	15 mg/m ³	Not Listed
Ethanol	1000 ppm	1000 ppm	3300 ppm
Methanol	200 ppm (skin)	200 ppm (skin)	6000 ppm
Isopropanol	400 ppm	400 ppm	2000 ppm
Phenol	5 ppm (TWA)	19 mg/m ³ (TWA)	250 ppm
Auramine O	Not listed	Not listed	Not listed
Rhodamine B	Not listed	Not listed	Not listed

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: Local exhaust such as explosion proof chemical fume hoods are recommended. 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 not required but recommended as part of good laboratory practice.

Section IX - Physical and Chemical Properties

Boiling Point: 110 - 112 °C

Vapor pressure (mm Hg): No data

Vapor Density (air = 1): No data

Appearance and Odor: A red liquid with a sickening sweet smell (phenol).

Density: 1.2 g/ml @ 22.5 °C

Evaporation Rate (Water = 1): No data

Solubility: Miscible with water

Section X - Stability and Reactivity

Stability: Stable under normal conditions.

Hazardous Decomposition Products: Nothing unusual.

Hazardous polymerization: Will not occur.

Incompatibilities: Reacts with strong oxidizing reagents and many common organic chemicals.

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

Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycerine	12.6 g/kg (Rat)	10 g/kg (Rabbit)	(Mist) 570 mg/m ³ 1 h (Rat)
Ethanol	1047 mg/kg (Rat)	20 ml/kg (Rat)	125 mg/l/4h (Rat)
Isopropanol	>4700 mg/kg (Rat)	13,000 mg/kg (Rabbit)	19,000 ppm/8h (Rat)
Methanol	5628 mg/kg (Rat)	15,800 mg/kg (Rabbit)	64,000 ppm/4h (Rat)
Phenol	317 mg/kg (Rat)	630 mg/kg (Rabbit)	900 mg/m ³ /8h (Rat)

Auramine O	480 mg/kg (Mouse)	No data	No data
Rhodamine B	500 mg/kg	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
Ethanol	No	No	No	None
Methanol	No	No	No	3
Isopropanol	No	No	No	3
Phenol	No	No	No	3
Auramine O	No	No	yes	2B
Rhodamine B	No	No	Yes	2B

Section XII - Ecological Information

Aliphatic alcohols evaporate quickly and are not expected to bioaccumulate.

Environmental Fate: Biodegradable

Soil Mobility: Unknown

Environmental Toxicity: (H411) Toxic to aquatic life with long lasting effects.

Component	Freshwater Fish	Water Flea	Freshwater algae
Glycerine	LC50 59 ppm 96 h	No data	No data
Ethanol	LC50 = 100 mg/l 96 h	EC50 = 100 mg/L 48 h	EC50 = 100 mg/l 72 h
Isopropanol	LC50 9640 mg/l 96 h	EC50 7550 mg/l 48 h	EC50 1000 mg/l 72 h
Methanol	LC50 >100 mg/l 96 h	EC50 >1000 mg/l 48 h	EC50 > 22 g/l 96 h
Phenol	LC50 25 mg/l 48 h	EC50 12 mg/l 24 h	EC50 370 mg/l 96 h
Auramine O	LC50 3.2 mg/l 48 h	No data	No data
Rhodamine B	LC50 84 mg/l 96 h	LC50 23 mg/l 48 h	No data

Section XIII - Disposal Considerations

Disposal at a licensed chemical disposal facility is the preferred disposal method. Local governments often restrict the amounts of alcohol and other flammable liquids that may be flushed down the drain. They also restrict the amount of phenol that may be introduced into the environment as well as carcinogenic dyes. Dispose of contents and container in accord with all applicable regulations.

Section XIV - Transportation Information

Not regulated.

Section XV - Regulatory Information

Chemical Inventory Status

<i>Ingredient</i>	<i>TSCA</i>	<i>EC</i>
Ethanol	Yes	Yes
Glycerine	Yes	Yes
Methanol	Yes	Yes
Isopropanol	Yes	Yes
Phenol	Yes	Yes
Auramine O	Yes	Yes
Rhodamine B	Yes	Yes


Federal and State Regulations

<i>Ingredient</i>	<i>SARA 302</i>		<i>SARA 313</i>		<i>RCRA</i> 261.33	<i>TSCA</i> 8(D)	<i>Ca. Prop 65</i>
	<i>RQ</i>	<i>TPQ</i>	<i>List</i>	<i>Category</i>			
Ethanol	No	No	No	No	No	No	No
Isopropanol	No	No	Yes	No	No	No	No
Glycerine	No	No	No	No	No	No	No
Phenol	Yes	Yes	Yes	Yes	No	No	No

Methanol	No	No	Yes	No	U154	No	No
Auramine	No	No	No	No	No	No	Yes
Rhodamine B	No	No	Yes	No	No	No	Yes

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

SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No Reactivity: No

 This product contains auramine O and rhodamine B which are known to the state of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

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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