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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 I - Product Identification

A solution of hematoxylin and aluminum ammonium sulfate in water.

Section II - Hazards Identification

Overview: May be harmful if swallowed. May be irritating to skin and eyes. Mercury salts are extremely toxic. Mercuric oxide is an experimental teratogen and mutagen. Signs of overexposure include increased salivation, foul breath, abdominal pain, bloody diarrhea and inflammation and/or ulceration of the mucous membranes. Skin contact may result in burns and/or dermatitis.

Safety Ratings

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

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

Storage: General storage

NFPA Ratings

Health = 2 Flammability = 2 Reactivity = 0



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 that of other mercury compounds. Because of the genetic toxicity of mercury compounds, Pregnant women should be particularly vigilant when handling this item.

Inhalation: Not likely to be a problem.

Ingestion: While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc.

Skin contact: Not normally a problem but will stain skin.

Eye contact: May be irritating

Chronic Exposure: Unknown

Aggravation of preexisting conditions: Unknown

Section III - Composition/Information on Components

Ingredients	CAS#	OSHA PEL	ACGIH TLV	%
Aluminum ammonium sulfate	7784-25-0	————	————	7% w/v
Ethanol	64-17-5	1000 ppm TWA	1000 ppm TWA	4.5% v/v
Isopropanol	67-63-0	400 ppm TWA	400 ppm STEL	0.25% v/v
Methyl alcohol	67-56-1	200 ppm TWA	200 ppm TWA	0.25% v/v
Hematoxylin	517-28-2	————	————	0.5% w/v
Mercuric oxide	21908-53-2	0.1 mg/m3 TWA	0.025 mg/m3 TWA	< 0.02% w/v

Section IV - First Aid Measures

Inhalation: Not likely to happen.

Ingestion: If the victim is conscious, induce vomiting. Never give anything by mouth to an unconscious person.

Skin Contact: Wash affected area with soap and water. Get medical advice if irritation develops.

Eye Contact: Rinse thoroughly with running water. Get medical advice if irritation develops.

Section V - Fire Fighting Measures

Flash point: 62°C (144°F).

Fire: Not normally a fire Hazard.

Explosion: Not Normally an explosion hazards.

Fire Extinguishing Media: Any means suitable for surrounding fire.

Special information: Pyrolysis will release corrosive oxides.

Section VI - Accidental Release Measures

Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal.

Section VII - Handling and Storage

Store in a closed container, protected from freezing.

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.

Section IX - Physical and Chemical Properties

Boiling Point: 1002°C

Vapor pressure (mm Hg): 18 @ 20°C

Vapor Density (air = 1): 0.6

Appearance and Odor: A purple liquid.

Density: About 1.02 g/ml

Evaporation Rate (water = 1): 1

Solubility: Infinitely miscible with water

Section X - Stability and Reactivity

Stability: Freezes at low temperature.

Hazardous Decomposition Products: Nothing unusual.

Hazardous polymerization: Will not occur.

Incompatibilities: Nothing unusual.

Conditions to avoid: Excessive cold/heat and light.

Section XI - Toxicological Information

Mercuric salts are highly toxic and cumulative.

Cancer lists

<u><i>Ingredient</i></u>	<u><i>Known Carcinogenicity?</i></u>	<u><i>NTP?</i></u>	<u><i>Anticipated?</i></u>	<u><i>IARC Category</i></u>
Aluminum ammonium sulfate	no	no	no	none
Ethanol	no	no	no	none
Methanol	no	no	no	none
Isopropanol	no	no	no	3
Hematoxylin	no	no	no	none
Mercuric oxide	no	no	no	3

Section XII - Ecological Information

Environmental Fate: Not biodegradable.

Environmental Toxicity: Mercury salts are toxic to marine life.

Section XIII - Disposal Considerations

Local governments often restrict flushing down the drain of even trace amounts of mercury. Insure compliance with all government regulation

Section XIV - Transportation information

Not regulated.

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

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Ethanol	Yes	Yes
Methanol	Yes	Yes
Isopropanol	Yes	Yes
Mercuric Oxide	Yes	Yes
Hematoxylin	Yes	Yes
Aluminum ammonium sulfate	Yes	Yes

Federal, State and International Regulations

<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</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>
Isopropanol	No	No	Yes	No	No	No	No
Methanol	No	No	Yes	No	U154	No	Yes
Ethanol	No	No	No	No	No	No	No
Mercuric Oxide	500	500	No	Mercury compd	No	No	Yes
Hematoxylin	No	No	No	No	No	No	No
Aluminum ammonium sulfate	No	No	No	No	No	No	NI

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.

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