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Section I - Product Identification

Product: A solution of mercuric chloride and sodium acetate in water.

Intended Uses: An in-vitro diagnostic reagent intended to be used as a fixative.

Uses advised against: Intended 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)

Eye damage/eye Irritation: Category 2 (H314) Causes severe skin burns and eye damage.

Acute toxicity (Oral): Category 1 (H300). Fatal if swallowed.

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

Acute toxicity (Dermal): Category 2 (H314). Causes severe skin burns and eye damage.

Specific organ toxicity (Repeated Exposure): Category 1 (H372). Causes damage to organs.

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

Reproductive toxicity: Category 2 (H361F). Suspected of damaging fertility.

Signal word: Danger

Hazard statements

According to the harmonized classification and labeling recommended by OSHA and the EU, this substance causes serious eye damage. In case of skin contact immediately remove all contaminated clothing. Rinse with water or shower. Fatal if swallowed. Wash thoroughly after handling. Do not eat drink or smoke while using this product. If swallowed rinse mouth with water and immediately call a poison control center. Administer antidote for mercury poisoning if available. Mercury salts are extremely toxic. Mercuric chloride is an experimental teratogen and mutagen.

Precautionary statements

- P233 Keep container tightly closed.
- 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.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Safety Ratings

Health: Extremely hazardous *Flammability:* Non-flammable *Reactivity:* Stable *Contact:* Hazardous
Recommended safety equipment: safety goggles, lab coat and proper gloves

NFPA Ratings

Health = 3 Flammability = 0 Reactivity = 0

Potential Health Effects

The toxicology of this compound has not been completely examined. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation. Pregnant women should be particularly vigilant when handling this item. Signs of overexposure include increased salivation, foul breath, abdominal pain, bloody diarrhea and inflammation and/or ulceration of the mucous membranes.

Inhalation: The vapor pressure of mercuric chloride is low and not likely to be volatile except in extreme conditions. Breathing the mist or spray is extremely hazardous.

Ingestion: Ingestion will produce coma and death. Mercuric chloride is a highly toxic cumulative poison and extremely corrosive

Skin contact: Skin contact may result in burns and/or dermatitis. Repeated contact with mercuric chloride can cause systemic poisoning.

Eye contact: Irritating and corrosive. Even brief contact can cause irreversible eye damage

Chronic Exposure: Mercuric compounds are a cumulative poison..

Aggravation of preexisting conditions: Preexisting eye, skin, and respiratory conditions may also be aggravated.

Section III - Composition/Information on Components

Ingredient	CAS#	EC/List No.	%
Mercuric chloride	7487-94-7	231-299-8	6% w/w
Sodium Acetate	127-09-3	204-823-8	0.7%

Section IV - First Aid Measures

General Advice: Get immediate medical attention..

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

Ingestion: Rinse mouth with water but do not induce vomiting. Aspiration of into the lungs may prove fatal. If the patient is conscious administer water or milk to dilute the poison and an absorbent such as activated charcoal. Specific antidotes for mercury poisoning are also available. 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. Launder clothing before reuse. Get medical advice.

Eye Contact: Remove contact lenses if feasible and flush with water for at least 15 minutes. Get medical attention.

Section V - Fire Fighting Measures

Flash point: Not applicable.

Fire: Not normally a fire hazard

Explosion: Not normally an explosion hazard

Special information: Pyrolysis will release toxic mercury compounds.

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

Section VI - Accidental Release Measures

Use personal protective gear, absorb with a suitable absorbent and dispose at a licensed disposal site. Should not be released into the environment.

Section VII - Handling and Storage

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

Section VIII - Exposure Control/Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Acetate	Not Regulated	Not Regulated	Not Regulated
Mercuric Chloride	0.025 mg/m ³ TWA	0.025 mg/m ³ TWA	10 mg/m ³ Hg

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 required.

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

Section IX - Physical and Chemical Properties

Boiling Point: 100 °C (212 °F)

Vapor pressure (mm Hg @ 25 °C): Unknown

Vapor Density (air = 1): 1.6

Volatile organic carbon (VOC): Not applicable

Density: 1.05 g/ml

Evaporation Rate (Water = 1): 1

Solubility: Infinitely miscible with water

Appearance and Odor: A clear colorless liquid with a vinegary odor.

Section X - Stability and Reactivity

Stability: Stable under normal conditions.

Hazardous Decomposition Products: Mercury compounds.

Hazardous polymerization: Will not occur.

Incompatibilities: Nothing unusual.

Conditions to avoid: Nothing unusual.

Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Mercuric Chloride	41 mg/kg (Rat)	Very hazardous	No Data
Sodium Acetate	3.5 g/kg (Rat)	>10 g/kg (Rabbit)	Dust >30 g/m ³ 1 h (Rat)

Cancer lists

<i>Ingredient</i>	<i>Known Carcinogenicity?</i>	<i>NTP?</i>	<i>Anticipated?</i>	<i>IARC Category</i>
Mercuric chloride	No	No	No	3
Sodium Acetate	No	No	No	None

Section XII - Ecological Information

Mercuric compounds are an environmental hazard.

Environmental Fate: Mercury salts are not biodegradable and accumulate in the environment.

Soil Mobility: Unknown

Environmental Toxicity: (H410) Hazardous to the aquatic environment, long-term hazard

Component	Freshwater Fish	Water Flea	Freshwater algae
Mercuric Chloride	EC50 0.11 mg/l 96 h	EC50 0.002 mg/l 48 h	EC 50 0.002 mg/l 48 h
Sodium Acetate	No Data	EC50 > 1 g/l 48 h	No Data

Section XIII - Disposal Considerations

Disposal at a licensed chemical disposal facility is the preferred disposal method. Local governments usually forbid drain disposal of mercury compounds. Dispose of contents and container in accord with all applicable regulations.

Section XIV - Transportation Information

DOT Shipping name: Mercury compound, liquid, n.o.s. (mercuric chloride)

Packaging Group II

Hazard Label: Poison

Hazard Class: 6.1

UN Identification Number: UN 2024


Section XV - Regulatory Information

Chemical Inventory Status

<i>Ingredient</i>	<i>TSCA</i>	<i>EC</i>
Sodium Acetate	Yes	Yes
Mercuric Chloride	Yes	Yes

Federal and State Regulations

<i>Ingredient</i>	<i>SARA 302</i>		<i>SARA 313</i>		<i>RCRA</i>	<i>TSCA</i>	<i>Ca. Prop 65</i>
	<i>RQ</i>	<i>TPQ</i>	<i>List</i>	<i>Category</i>	<i>261.33</i>	<i>8(D)</i>	
Mercuric Chloride	500	500	No	Mercury Cmpd	No	No	Yes
Sodium Acetate	No	No	No	No	No	No	No
Chemical Weapons Convention: No		TSCA 12(b): No		CDTA: Yes			
SARA 311/312: Acute: Yes, Chronic: Yes, Fire: Yes, Reactivity: No							

 This product contains mercuric chloride which is known to the state of California to cause 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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