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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

A solution of mercuric chloride and potassium dichromate in water.

Section II - Hazards Identification

Overview: Mercury salts are extremely toxic. Mercuric chloride 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. Potassium dichromate is a proven carcinogen.

Safety Ratings

Health: Hazardous **Flammability:** Nonflammable **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 = 3 Flammability = 0 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: Mercuric chloride and potassium dichromate have very low vapor pressure and are unlikely to be inhaled.

Ingestion: ingestion will produce CNS disturbance, dizziness, photophobia, headache, stupor, coma and death. Mercuric chloride is a toxic, corrosive and a cumulative poison.

Skin contact: Absorbed through the skin. Repeated contact with mercuric chloride can cause systemic poisoning.

Eye contact: Even brief contact can cause irreversible eye damage.

Chronic Exposure: Mercury salts are cumulative poisons. Mercuric chloride is an experimental teratogen and mutagen

Aggravation of preexisting conditions: Impaired kidney and liver function may be aggravated by exposure to alcohols and/or mercuric chloride. Preexisting eye, skin, and respiratory conditions may also be aggravated. Mercuric chloride has shown genetic toxicity in some animals.

Section III - Composition/Information on Hazardous Components

Ingredients	CAS#	OSHA PEL	ACGIH TLV	Other Limits	%
Potassium dichromate	7778-50-9	0.1 mg/m ³ (CrO ₃)	0.05 mg/m ³ (TWA)		1.5%
Mercuric chloride	7487-94-7	0.1 mg/m ³ (TWA) skin	0.025 mg/m ³ (TWA) skin		1.5%

Section IV - First Aid Measures

Inhalation: Remove from source of exposure and get immediate medical attention. Be prepared to assist breathing.

Ingestion: Do not induce vomiting. 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.

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 mercurial compounds.

Section VI - Accidental Release Measures

Remove all sources of ignition, absorb with a suitable absorbent and store for disposal or recycling.

Section VII - Handling and Storage

Store in a closed container, away from open flames or other sources of ignition.

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 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): 18 @ 20°C

Vapor Density (air = 1): 1.6

Appearance and Odor: A clear, colorless liquid.

Density: 1.07 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: Mercury compounds.

Hazardous polymerization: Will not occur.

Incompatibilities: Oxidizers.

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

Section XI - Toxicological Information

Mercuric chloride is a cumulative poison.

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>
Mercuric Chloride	yes	no	no	3
Potassium Dichromate	yes	no	no	1

Section XII - Ecological Information

Environmental Fate: Not biodegradable

Environmental Toxicity: Very toxic to aquatic life.

Mercuric chloride will bioaccumulate.

Section XIII - Disposal Considerations

Mercury compounds are subject to reportable quantities under CERCLA and may not be flushed down the drain. Waste should be sent to an approved waste disposal facility. Insure compliance with all government regulations.

Section XIV - Transportation information

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

Hazard Class: 6.1

Packing Group: III

DOT Hazard Label: Keep away from food

Section XV - Regulatory Information

Chemical Inventory Status

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Mercuric Chloride	Yes	Yes
Potassium Dichromate	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>
Mercuric Chloride	500	500	No	Mercury Cmpd	No	No
Potassium Dichromate	No	No	No	Chromium Cmpd	No	No

<u>Ingredient</u>	<u>Ca. Prop 65</u>
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Mercuric Chloride	Yes
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Potassium Dichromate	Yes
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Chemical Weapons Convention: No TSCA 12(b): Yes 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.

Revision Date: Apr. 15, 2014