Medical Chemical Corp.
19430 Van Ness Ave.
Torrance, CA 90501
Customer Service: Phone (310)787-6800
FAX (310)787-4464
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 1 - Product Identification
A solution of mercuric chloride and potassium dichromate in water.

Section II - Hazards Identification
Danger. Fatal if swallowed. Wash thoroughly after handling. Do not eat drink or smoke while using this product. If swallowed
immediately call a poison center and rinse mouth with water. Administer antidote for mercury poisoning if available.

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
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. 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

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS#</th>
<th>OSHA Pel</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium dichromate</td>
<td>7778-50-9</td>
<td>0.1 mg/m3 (CrO3)</td>
<td>0.05 mg/m3 (TWA)</td>
<td></td>
<td>1.5%</td>
</tr>
<tr>
<td>Mercuric chloride</td>
<td>7487-94-7</td>
<td>0.1 mg/m³ (TWA) skin</td>
<td>0.025 mg/m3 (TWA) skin</td>
<td></td>
<td>1.5%</td>
</tr>
</tbody>
</table>

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 locked up. 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>100 °C (212°F)</td>
</tr>
<tr>
<td>Vapor pressure (mm Hg)</td>
<td>18 @ 20 °C</td>
</tr>
<tr>
<td>Vapor Density (air = 1)</td>
<td>1.6</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>A clear, colorless liquid.</td>
</tr>
<tr>
<td>Density</td>
<td>1.07 g/ml</td>
</tr>
<tr>
<td>Evaporation Rate (Water = 1)</td>
<td>1</td>
</tr>
<tr>
<td>Solubility</td>
<td>Infinitely miscible with water</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Known Carcinogenicity?</th>
<th>NTP?</th>
<th>Anticipated?</th>
<th>IARC Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric Chloride</td>
<td>yes</td>
<td>no</td>
<td>no</td>
<td>3</td>
</tr>
<tr>
<td>Potassium Dichromate</td>
<td>yes</td>
<td>no</td>
<td>no</td>
<td>1</td>
</tr>
</tbody>
</table>

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. Dispose of contents and container in accordance 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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TSCA</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric Chloride</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Potassium Dichromate</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Federal, State and International Regulations

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>SARA 302</th>
<th>SARA 313</th>
<th>RCRA</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric Chloride</td>
<td>RQ 500</td>
<td>TPQ 500</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Potassium Dichromate</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Ingredient

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Ca. Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric Chloride</td>
<td>Yes</td>
</tr>
<tr>
<td>Potassium Dichromate</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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: Nov. 2, 2017