

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 I - Product Identification

An aqueous solution of chromic acid.

### Section II - Hazards Identification

Danger: causes severe skin burns and eye damage. Wash thoroughly after handling. Wear protective clothing, eye and face protection. If swallowed: rinse mouth but do not induce vomiting. Immediately contact a poison control center. Remove contaminated clothing and rinse skin with water. Wash clothing before reuse.

#### Safety Ratings

*Health:* Severe    *Flammability:* None    *Reactivity:* Reactive    *Contact:* Hazardous

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

*Storage:* General storage

NFPA Ratings

Health = 3    Flammability = 0    Reactivity = 2



#### Potential Health Effects

Chromic acid is a carcinogen and should be handled with care. It is also a strong oxidizer that will cause tissue damage and severe ulcers on contact with skin or eyes.

*Inhalation:* Extremely corrosive to mucous membranes and other structures in the respiratory tract. Will cause pulmonary edema.

*Ingestion:* Can cause severe burns to mouth, esophagus and stomach. Also causes nausea, vomiting, diarrhea, etc.

*Skin contact:* Can cause burns and ulceration.

*Eye contact:* Even brief contact can cause severe damage.

*Chronic Exposure:* Unknown

*Aggravation of preexisting conditions:* Unknown

### Section III - Composition/Information on Components

| Ingredients  | CAS#      | OSHA PeI                                       | ACGIH TLV                       | %      |
|--------------|-----------|--|---------------------------------|--------|
| Chromic acid | 7738-94-5 | 0.1 mg/m <sup>3</sup> (CrO <sub>3</sub> ) Ceil | 0.05 mg/m <sup>3</sup> (Cr) TWA | 4% w/v |

### Section IV - First Aid Measures

*Inhalation:* Because of the low vapor pressure, inhalation is unlikely to be a problem with this product. In case of difficulty, remove from source of exposure and get immediate medical attention. Be prepared to assist breathing.

*Ingestion:* Do not induce vomiting. If the victim is conscious administer large quantities of water. 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 immediate medical attention.

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## Section V - Fire Fighting Measures

*Flash point:* Not applicable.

*Flammable Limits:* Not applicable.

*Fire:* Not normally a fire hazard.

*Explosion:* Not normally an explosion hazard.

*Fire Extinguishing Media:* Any means suitable for surrounding fire.

*Special information:* Pyrolysis will release corrosive oxides of chromium.

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## Section VI - Accidental Release Measures

Absorb with a suitable absorbent and store in a suitable container for disposal.

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## Section VII - Handling and Storage

Store in a closed container, protected from freezing.

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## 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.

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## Section IX - Physical and Chemical Properties

*Boiling Point:* 102°C

*Vapor pressure (mm Hg):* 18 @ 20°C

*Vapor Density (air = 1):* 0.6

*Appearance and Odor:* A clear, dark red liquid.

*Density:* 1.04 g/ml

*Evaporation Rate (water = 1):* 1

*Solubility:* Infinitely miscible with water

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## 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.

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## Section XI - Toxicological Information

None relating to normal exposure.

Cancer lists

| <u>Ingredient</u> | <u>Known Carcinogenicity?</u> | <u>Anticipated?</u> | <u>IARC Category</u> |
|-------------------|-------------------------------|---------------------|----------------------|
| Chromic Acid      | Yes                           | No                  | 1                    |

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## Section XII - Ecological Information

*Environmental Fate:* Not biodegradable.

*Environmental Toxicity:* Toxic to marine life.

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## Section XIII - Disposal Considerations

Local governments usually restrict the amounts of chromium compounds that may be flushed down the drain. Insure compliance with all government regulation

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**Section XIV - Transportation Information**

DOT Shipping name: Chromic acid solution  
DOT Hazard Label: Corrosive

Hazard Class: 8 Packing Group: II  
DOT Identification Number: UN1755

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

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| <u>Ingredient</u> | <u>TSCA</u> | <u>EC</u> |
|-------------------|-------------|-----------|
| Chromic Acid      | Yes         | Yes       |

**Federal, State and International Regulations**

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| <u>Ingredient</u> | <u>SARA 302</u> |            | <u>SARA 313</u> |                 | <u>RCRA</u>   | <u>TSCA</u> | <u>Ca. Prop 65</u> |
|-------------------|-----------------|------------|-----------------|-----------------|---------------|-------------|--------------------|
|                   | <u>RQ</u>       | <u>TPQ</u> | <u>List</u>     | <u>Category</u> | <u>261.33</u> | <u>8(D)</u> |                    |
| Chromic Acid      | No              | No         | No              | Chromium Cmpd   | No            | No          | Yes                |

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

SARA 311/312: Acute: Yes, Chronic: Yes, Fire: Yes

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**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. 29, 2015