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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 III - 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 PeL	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	5% 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 hazards.

*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:* 1.05 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 drain. Insure compliance with all government regulation

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## Section XIV - Transportation Information

DOT Shipping name: Chromic acid solution

Hazard Class: 8      Packing Group: II

DOT Hazard Label: Corrosive

DOT Identification Number: UN1755

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## Section XV - Regulatory Information

### Chemical Inventory Status

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Chromic Acid	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>		
Chromic Acid	No	No	No	Chromium Cmpd	261.33	8(D)      Ca. Prop 65 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 waranteed as such, nor does it purport to be all inclusive.

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