

## Safety Data Sheet

# CHROMIC ACID, 4%, AQUEOUS

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Chromic Acid, 4%, AQ

**Catalog Numbers:** A-120-1, A-121-1, SO-309

**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

### Section 2 - Hazards Identification

## GHS Classifications Category HEALTH HAZARDS

H301-Acute Oral Toxicity: 3

H311-Acute Dermal Toxicity: 3

H332-Acute Inhalation toxicity: 4

H314-Skin Corrosion/Skin Irritation: 1B

H319-Eye Damage/Irritation: 2A

H317-Skin Sensitization: 1

H340-Germ Cell Mutagenicity: 1A

H351-Carcinogenicity: 2

H361-Reproductive toxicity: 2

H373-Specific Target Organ Toxicity RE: 2

## PHYSICAL HAZARDS Category

H271-Oxidizing Liquids: 1

H290-Corrosive to Metals: 1

## Pictogram or Hazard Symbols



**Danger: Toxic if swallowed.**  
**Toxic in contact with skin.**



**Warning: Harmful if inhaled.**  
**Causes serious eye irritation.**  
**May cause an allergic skin reaction.**



**Danger: Causes severe skin burns and eye damage.**  
**Warning: May be corrosive to metals.**



**Danger: May cause genetic defects.**

**Warning: Suspected of causing cancer.**  
**Suspected of damaging fertility or the unborn child.**  
**May cause damage to organs through prolonged or repeated exposure.**



**Danger: May cause fire or explosion; strong oxidizer.**

#### **Precautionary Statement Prevention**

**H301**

**P264** Wash thoroughly after handling.

**P270** Do not eat, drink, or smoke when using this product.

**P301 + P310** IF SWALLOWED: Immediately call a POISON CENTER or doctor.

**P330** **Rinse Mouth.**

**P405** Store locked up.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

### H311

**P280** Wear protective gloves, clothing, and eye and face protection.

**P302 + P352** If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.

**P312** Call a physician if you feel unwell

**P361 + P363** Take off immediately all contaminated clothing and wash it before reuse.

**P405** Store locked up.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

### H332

**P261** Avoid breathing fumes/mist/vapors.

**P304 + P340** If inhaled, remove person to fresh air and keep comfortable for breathing.

1 Use only outdoors or in a well-ventilated area.

**P312** Call a physician if you feel unwell.

### H314

**P260** Do not breathe fume/gas/mist/vapors.

**P264** Wash thoroughly after handling.

**P280** Wear protective gloves, clothing, and eye and face protection.

**P301 + P330 + P331** If swallowed, rinse mouth. Do not induce vomiting.

**P303 + P361 + P353** If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water.

**P363** Wash contaminated clothing before reuse.

**P304 + P340** If inhaled, remove person to fresh air and keep comfortable for breathing.

**P310** Seek medical assistance if exposed.

**P405** Store locked up.

**P305 + P351 + P338** If in eyes, rinse cautiously with water for several minutes.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

### H319

**P305 + P351 + P338** If in eyes, rinse cautiously with water for several minutes.

**P337 + P313** If eye irritation persists, get medical advice/attention.

**P285** In case of inadequate ventilation, wear respiratory protection.

### H317

**P272** Contaminated work clothing should not be allowed out of the work place.

**P333+P313** IF ON SKIN: Wash with plenty of soap and water.

**P363** Wash contaminated clothing before reuse.

### H340

**P201** Obtain special instructions before use.

**P202** Do not handle until all safety precautions have been read and understood.

**P281** Use personal protective equipment as required.

**P308 + P313** If exposed or concerned: Get medical advice/attention.

**P405** Store Locked up

**P501** Dispose of contents/container to... in accordance with local/regional/national/international regulations (to be specified)

H351

**P201** Obtain special instructions before use.

**P202** Do not handle until all safety precautions have been read and understood.

**P281** Use personal protective equipment as required.

**P308 + P313** IF exposed or concerned: Get medical advice/attention.

H361

**P201** Obtain special instructions before use.

**P202** Do not handle until all safety precautions have been read and understood.

**P281** Use personal protective equipment as required.

**P308 + P313** IF exposed or concerned: Get medical advice/attention.

**P405** Store locked up

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

H373

**P260** Do not breathe fume/gas/mist/vapors.

**P314** Get medical advice/attention if you feel unwell.

**H272**

**P210** Keep away from heat, flames, and hot surfaces. No smoking.

**P220** Store away from combustible materials. Incompatible with: reducing agents, easily oxidized materials, organic materials and metal powders.

**P221** Take any precaution to avoid mixing with combustibles.

**P370 + P378** In case of fire (see section 5)

H271

**P210** Keep away from heat, flames and hot surfaces. No smoking.

**P220** Store away from combustible materials.

**P221** Take any precaution to avoid mixing with combustibles.

**P280** Wear protective gloves, clothing, and eye and face protection.

**P283** Wear fire/flame resistant/retardant clothing.

**P306 + P360** If on clothing, rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

**P371 + P380 + P375** In case of major fire and large quantities, evacuate area. Fight fire remotely due to the risk of explosion.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

H290

**P234**-Keep only in original container.

**P390**-Absorb spillage to prevent material damage.

**P406**-Store in corrosive resistant/container with a resistant inner liner.

Section 3 - Composition, Information on Ingredients
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CAS#	Chemical Name	Percent
1333-82-0	Chromic Acid	4 w/v
7732-18-5	Water	100 v/v

## Section 4 - First Aid Measures

**Eye Exposure:** May result in corneal injury and possible burns; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause permanent eye damage Seek medical attention?

**Dermal Exposure:** Obtain medical attention: May cause skin sensitization, and allergic reaction.

**Oral Exposure:** Harmful if swallowed. Get Medical Attention immediately. Do not induce vomiting;

**Inhalation Exposure:** If inhaled, remove to fresh air. If not breathing give artificial respiration. Seek medical attention.

## Section 5 - Fire Fighting Measures

**NFPA** HEALTH 2 FLAMMABILITY 1 REACTIVITY 1

**Extinguishing media:** Water spray. Neutralize with soda ash or slaked lime

**Special fire fighting procedures:** Wear chemically retardant gear and NIOSH approved self-contained breathing apparatus. Thermal decomposition produces irritating and toxic fumes.

**Flash Point: 165 deg C**

## Section 6 - Accidental Release Measures

**Methods for Cleaning up:** Use proper personal protective equipment as indicated in section 8. Clean up spills immediately, observing precautions in the protective equipment section.

## Section 7 - Handling and Storage

Wash thoroughly after handling. Keep container closed tightly. Avoid contact with combustibles. Use with adequate ventilation or respiratory protection. Do not store near combustibles or in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8 - Exposure Controls, Personal Protection

**Respiratory protection:** Wear NIOSH program complying with requirements of 29 CFR 1910.134 is recommended.

**Ventilation:** Local ventilation through fume hoods or laminar flow stations is also preferred.

**Personal Protective Equipment:**

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles/ face shield.

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid  
**Appearance:** Amber  
**Vapor Density:** N/A  
**Evaporation Rate:** N/A  
**Viscosity:** N/A  
**Decomposition Temperature:** N/A  
**Solubility:** Soluble.

#### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to avoid:** Excess heat, sunlight, confined spaces.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, phenol.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities with other materials:** Strong oxidizing agents, strong base, caustics.

#### Section 11 - Toxicological Information

**RTECS#:**

**LD50/LC50:**

CAS# 1333-82-0

Acute oral (LD50): 80mg/kg [Rat]

Acute oral (LD50): 127mg/kg [Mouse]

**Carcinogenicity:**

CAS# 1333-82-0: Classified A1 [confirmed for human] by ACGIH, Classified proven for IARC.

NTP, or CA Prop 65 - Not Available

**Route of exposure:**

Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

**Conditions aggravated by exposure:**

The substance may be toxic to kidneys, liver, gastrointestinal tract, upper respiratory tract, skin, eyes. Repeated or prolonged exposure to the substance can produce target organ damage.

#### Section 12 - Ecological Information

**Ecotoxicity Fish:** Not Available

**Environmental Toxicity:** Not Available.

#### Section 13 - Disposal Considerations

**Appropriate method of disposal of substance or preparation:**

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved wasted facility.

## Section 14 – Transport Information

### DOT

**Proper shipping name:** Chromic Acid Solution

**Primary Hazard class/division:** 8(Corrosive)

**UN/NA Number:** UN 1755

**Packing group:** II

## Section 15 - Regulatory Information

**Symbol:** T Toxic

### Risk and Safety phrases

R5 - Heating may cause an explosion.

R8 - Contact with combustible material may cause fire.

R20 - Harmful by inhalation.

R21 - Harmful in contact with skin.

R22 - Harmful if swallowed.

R34 - Causes burns.

R36 - Irritating to eyes.

S 1 - Keep locked up

S 3 - Keep in a cool place

S 24 - Avoid contact with skin

S 25 - Avoid contact with eyes

## Section 16 - Additional Information

**MSDS Creation Date:** May 11, 2012

**Revision #** 1 7/31/14 Co-sign R.C.

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