

# SAFETY DATA SHEET



This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System. THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD) IMPORTANT: Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

## Section 1 - Chemical Product and Company Information

Product Name: Chromic Acid SDS: 5110

COMPANY IDENTITY: Webb Chemical Service Corp.  
COMPANY ADDRESS: 2708 Jarman Street  
COMPANY CITY: Muskegon Hts., MI 49444  
COMPANY PHONE: 1-231-733-2181

EMERGENCY PHONE: CHEMTREC: 1-800-424-9300 (USA)

Product Use: Industrial Uses

## Section 2 - Hazards Identification

### GHS Ratings:

Oxidizing solid	1	Oxidizing solid class 1
Oral Toxicity	Acute Tox. 3	Oral >50+ <= 300mg/kg
Dermal Toxicity	Acute Tox. 3	Dermal >200+ <= 1000mg/kg
Inhalation Toxicity	Acute Tox. 2	Gases >100+ <= 500ppm, Vapors >0.5+ <= 2mg/l, Dusts & mists >0.05+ <= 0.5mg/l
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
Mutagen	2	Suspected/Possible: May include heritable mutations in human germ cells, Positive evidence from tests in mammals and somatic cell tests, In vivo somatic genotoxicity supported by in vitro mutagenicity
Carcinogen	1A	Known Human Carcinogen Based on human evidence
Reproductive toxin	2	Human or animal evidence possibly with other information
Organ toxin single exposure	3	Transient target organ effects- Narcotic effects- Respiratory tract irritation
Organ toxin repeated exposure	1	Significant toxicity in humans- Reliable, good quality human case studies or epidemiological studies Presumed significant toxicity in humans- Animal studies with significant and/or severe toxic effects relevant to humans at generally low exposure (guidanc

### GHS Hazards

H271 May cause fire or explosion; strong oxidizer

H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure

**GHS Precautions**

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P220	Keep/Store away from clothing/combustible materials
P221	Take any precaution to avoid mixinn with combustibles
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash face, hands and any exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P283	Wear fire/flame resistant/retardant clothing
P284	Wear respiratory protection
P285	In case of inadequate ventilation wear respiratory protection
P310	Immediately call a POISON CENTER or doctor/physician
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P314	Get Medical advice/attention if you feel unwell
P320	Specific treatment is urgent (see ... on this label)
P321	Specific treatment (see ... on this label)
P322	Specific measures (see ... on this label)
P330	Rinse mouth
P361	Remove/Take off immediately all contaminated clothing
P363	Wash contaminated clothing before reuse
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P306+P360	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes
P308+P313	IF exposed or concerned: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P342+P311	Call a POISON CENTER or doctor/physician
P370+P378	In case of fire: Use dry chemical or alcohol resistant foam for extinction.

P371+P380+P375

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion

P405

Store locked up

P403+P233

Store in a well ventilated place. Keep container tightly closed

P501

Dispose of contents/container to an approved waste disposal plant.

**Signal Word: Danger**



### Section 3 - Composition/Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
Chromic Acid	1333-82-0	100.00%

### Section 4 - First Aid Measures

**First aid measures**

**General advice:** Immediate medical attention is required.

**Eye contact:** Keep eye wide open while rinsing. Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub affected area.

**Inhalation:** Remove to fresh air. Call a physician or poison control center immediately. Oxygen or artificial respiration if needed. Call a physician. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Skin Contact:** Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Ingestion:** Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.

**Self-protection of the first aider:** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**Most important symptoms and effects, both acute and delayed**

**Symptoms:** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians:** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

### Section 5 - Fire Fighting Measures

Flash Point: N/A

LEL:

UEL:

**Extinguishing media**

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

**Unsuitable extinguishing media:** Caution: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical:**

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**Explosion data Sensitivity to Mechanical Impact:** None.

**Sensitivity to Static Discharge:** None.

**Protective equipment and precautions for firefighters:** Wear self-contained breathing apparatus and protective suit.

## Section 6 - Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

**For emergency responders:** Use personal protection recommended in Section 8. Use personal protective equipment as required.

**Environmental Precautions:** Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment:** Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up:** Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid creating dust. Soak up with inert absorbent material. Dam up. After cleaning, flush away traces with water.

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## Section 7 - Handling and Storage

**Precautions for safe handling**

**Advice on safe handling:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions:** Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

**Incompatible materials:** Incompatible with strong acids and bases. Incompatible with oxidizing agents.

## Section 8 - Exposure Controls / Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Chromic Acid 1333-82-0	Not Established	Not Established	NIOSH: 0.0002 mg/m3 TWA (as Cr, listed under Chromic acid and Chromates)

### Control parameters

**Other Information:** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Appropriate engineering controls

**Engineering Controls:** Showers

Eyewash stations

Ventilation systems.

### Individual protection measures, such as personal protective equipment

**General Hygiene Considerations:** When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

**Eye/face protection:** Tight sealing safety goggles. Face protection shield.

**Skin and body protection:** No special technical protective measures are necessary.

**Respiratory protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

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## Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

<b>Appearance:</b>	Flakes
<b>Odor:</b>	No Information
<b>Vapor Pressure:</b>	N/A
<b>Odor threshold:</b>	N/A
<b>Vapor Density:</b>	N/A
<b>pH</b>	N/A
<b>Specific Gravity:</b>	2.7
<b>Melting point:</b>	N/A
<b>Freezing point:</b>	Unknown
<b>Solubility:</b>	partially soluble

<b>Boiling range:</b>	Unknown
<b>Flash point:</b>	N/A
<b>Evaporation rate:</b>	Unknown
<b>Flammability</b>	N/A
<b>Explosive Limits:</b>	N/A
<b>Partition coefficient (n-octanol/water):</b>	Unknown
<b>Autoignition temperature:</b>	N/A
<b>Decomposition temperature:</b>	250°C
<b>Grams VOC/liter less water</b>	N/A

## Section 10 - Stability and Reactivity

### Chemical stability

Stable under recommended storage conditions.

STABLE

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Exposure to air or moisture over prolonged periods.

### Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

### Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## Section 11 - Toxicological Information

### Mixture Toxicity

Oral Toxicity LD50: 80mg/kg

Dermal Toxicity LD50: 57mg/kg

Inhalation Toxicity LC50: 0mg/L

### Component Toxicity

1333-82-0      Chromic Acid

Oral LD50: 80 mg/kg (Rat)    Dermal LD50: 57 mg/kg (Rabbit)    Inhalation LC50: 0 mg/L (Rat)

### Information on likely routes of exposure

**Product Information:** No data available

**Inhalation:** No data available.

**Eye contact:** No data available.

**Skin Contact:** No data available.

**Ingestion:** No data available.

**Carcinogenicity:** The product is considered to be carcinogenic. According to the data on the components

According to the classification criteria for mixtures.

Chemical Name	CAS No	ACGIH	IARC	NTP	OSHA
Chromium trioxide	1333-82-0	A1	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

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Printed: 8/4/2017 at 12:25:27PM

**Information on toxicological effects**

**Symptoms:** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization:** No information available.

**Germ cell mutagenicity:** No information available.

**Reproductive toxicity:** No information available.

**STOT - single exposure:** No information available.

**STOT - repeated exposure:** No information available.

**Chronic toxicity:**

Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.

**Target Organ Effects:** blood, Eyes, kidney, liver, lungs, Respiratory system, Skin.

**Aspiration hazard:** No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 100 mg/kg

**ATEmix (dermal)** 300 mg/kg

**ATEmix (inhalation-dust/mist)** 0 mg/l 50

**Section 12 - Ecological Information**

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Chemical Name CAS No Algae/aquatic plants Fish Crustacea**

Chromium trioxide 1333-82-0 - 40: 96 h Colisa fasciatus  
mg/L LC50 static

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

**Other adverse effects:** No information available

**Component Ecotoxicity**

Chromic Acid 96 Hr LC50 Colisa fasciatus: 40 mg/L [static]

**Section 13 - Disposal Considerations**

As the US EPA, state, regional, and other regulatory agencies may have jurisdiction over the disposal of your facility's hazardous waste, it is incumbent upon you, the hazardous waste generator, to learn of and satisfy all the requirements which affect you. Dispose of the hazardous waste at a properly licensed and permitted disposal site or facility. Ensure conformity to all applicable hazardous waste disposal regulations.

The US EPA Hazardous Waste Numbers which follow are applicable to this unadulterated product if the product enters the "waste stream." Refer to Title 40 of the Code of Federal Regulations, Part 261 (40 CFR 261). This part of the Code identifies solid wastes which are subject to regulation under various sections of the Code and which are subject to the notification requirements of Section 3010 of the Resource Conservation and Recovery Act (RCRA).

## Section 14 - Transport Information

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Chromium trioxide, anhydrous	UN 1463	II	5.1,(6.1,8)

## Section 15 - Regulatory Information

Additional regulatory listings, where applicable.

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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**Toxic Substances Control Act (TSCA):** All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

**Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).** This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations, part 372.

## Section 16 - Other Information

**EMPLOYEE TRAINING:** Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

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Date revised: 2017-08-03

Reviewer Revision

Date Prepared: 8/4/2017