



**SAFETY DATA SHEET  
CHROMATE CONVERSION COATING**

**1. Identification**

**Product identifier**

**Product name** CHROMATE CONVERSION COATING

**Product number** 5030

**Recommended use of the chemical and restrictions on use**

**Application** Industrial Use

**Details of the supplier of the safety data sheet**

**Supplier** SIFCO Applied Surface Concepts  
5708 E. Schaaf Road  
Independence, Ohio 44131  
U.S.A.  
Tel.: +1 216-524-0099  
Fax: +1 216-524-6331  
E-Mail: info@sifcoasc.com

**Emergency telephone number**

**Emergency telephone** CHEMTREC (United States) (800) 424-9300; CHEMTREC (International) +1 703-527-3887

**2. Hazard(s) identification**

**Classification of the substance or mixture**

**Physical hazards** Not Classified

**Health hazards** Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Muta. 1B - H340 Carc. 1B - H350 Repr. 1B - H360FD STOT RE 1 - H372

**Environmental hazards** Aquatic Acute 3 - H402 Aquatic Chronic 3 - H412

**Label elements**

**Pictogram**



**Signal word**

Danger

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**Hazard statements**

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H360FD May damage fertility. May damage the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- P260 Do not breathe vapor/ spray.
- P264 Wash contaminated skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P284 [In case of inadequate ventilation] wear respiratory protection.
- P302+P352 If on skin: Wash with plenty of water.
- P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P501 Dispose of contents/ container in accordance with national regulations.
- P301+P310 If swallowed: Immediately call a poison center/ doctor.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**Contains**

SODIUM DICHROMATE

**Other hazards**

This product does not contain any substances classified as PBT or vPvB.

**3. Composition/information on ingredients**

**Mixtures**

<b>SODIUM DICHROMATE</b>	<b>1-5%</b>
CAS number: 10588-01-9	
M factor (Acute) = 1	M factor (Chronic) = 1

<p><b>Classification</b></p> <p>Ox. Sol. 2 - H272</p> <p>Acute Tox. 3 - H301</p> <p>Acute Tox. 4 - H312</p> <p>Acute Tox. 2 - H330</p> <p>Skin Corr. 1B - H314</p> <p>Eye Dam. 1 - H318</p> <p>Resp. Sens. 1 - H334</p> <p>Skin Sens. 1 - H317</p> <p>Muta. 1B - H340</p> <p>Carc. 1B - H350</p> <p>Repr. 1B - H360FD</p> <p>STOT SE 3 - H335</p> <p>STOT RE 1 - H372</p> <p>Aquatic Acute 1 - H400</p> <p>Aquatic Chronic 1 - H410</p>
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<b>SULPHURIC ACID ...%</b>	<b>&lt;1%</b>
CAS number: 7664-93-9	
<b>Classification</b>	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention immediately.
<b>Skin Contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.

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

<b>Inhalation</b>	Toxic: danger of serious damage to health by prolonged exposure through inhalation. Coughing, chest tightness, feeling of chest pressure.
<b>Ingestion</b>	Toxic: danger of serious damage to health by prolonged exposure if swallowed. Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract. May cause stomach pain or vomiting.
<b>Skin contact</b>	May cause skin irritation. May cause sensitization or allergic reactions in sensitive individuals. Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	May cause blurred vision and serious eye damage. Causes serious eye irritation. Immediate first aid is imperative.

#### Indication of immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations.
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### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

#### Special hazards arising from the substance or mixture

**Specific hazards** Toxic gases or vapors.

#### Advice for firefighters

**Protective actions during firefighting** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

### 6. Accidental release measures

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### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapors. Provide adequate general and local exhaust ventilation.

### Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

### Methods and material for containment and cleaning up

**Methods for cleaning up** Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect and dispose of spillage as indicated in Section 13. Wash thoroughly after dealing with a spillage.

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## 7. Handling and storage

### Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapors and spray/mists. Provide adequate general and local exhaust ventilation.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight.

**Storage class** Toxic storage.

### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

## 8. Exposure Controls/personal protection

### Control parameters

#### Occupational exposure limits

#### **SULPHURIC ACID ...%**

Long-term exposure limit (8-hour TWA): ACGIH 0.2 mg/m<sup>3</sup> thoracic fraction

Long-term exposure limit (8-hour TWA): OSHA 1 mg/m<sup>3</sup>

A2

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

A2 = Suspected Human Carcinogen.

**Ingredient comments** WEL = Workplace Exposure Limits

### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapor or mist.

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<b>Eye/face protection</b>	Tight-fitting safety glasses.
<b>Hand protection</b>	It is recommended that chemical-resistant, impervious gloves are worn. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. It is recommended that gloves are made of the following material: Nitrile rubber.
<b>Other skin and body protection</b>	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
<b>Hygiene measures</b>	Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Color</b>	Red.
<b>Odor</b>	No characteristic odor.
<b>pH</b>	pH (concentrated solution): 1.7-2.1
<b>Relative density</b>	1.05-1.06 @ 20°C
<b>Other information</b>	Not available.

### 10. Stability and reactivity

<b>Reactivity</b>	Reacts with alkalis and generates heat.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Possibility of hazardous reactions</b>	Not determined.
<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
<b>Materials to avoid</b>	Strong alkalis. Strong reducing agents.
<b>Hazardous decomposition products</b>	None at ambient temperatures.

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

ATE oral (mg/kg) 5,882.35

##### Acute toxicity - dermal

ATE dermal (mg/kg) 64,705.88

##### Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 2.94

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<b>Inhalation</b>	Vapors irritate the respiratory system.
<b>Ingestion</b>	Toxic if swallowed. May cause stomach pain or vomiting. May cause severe internal injury.
<b>Skin Contact</b>	May cause skin irritation. May cause sensitization or allergic reactions in sensitive individuals.
<b>Eye contact</b>	May cause serious eye damage. Immediate first aid is imperative.
<b>Acute and chronic health hazards</b>	This chemical can be hazardous when inhaled and/or touched. This product may cause skin and eye irritation. Known or suspected carcinogen for humans.
<b>Route of entry</b>	Ingestion Inhalation Skin and/or eye contact

### Toxicological information on ingredients.

#### SODIUM DICHROMATE

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 59.0

Species Rat

ATE oral (mg/kg) 100.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,000.0

Species Rabbit

ATE dermal (mg/kg) 1,100.0

##### Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 0.05

#### SULPHURIC ACID ...%

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 2,140.0

Species Rat

ATE oral (mg/kg) 2,140.0

### 12. Ecological Information

<b>Ecotoxicity</b>	The product contains a substance which may have hazardous effects on the environment.
<b>Toxicity</b>	No data available.

### Ecological information on ingredients.

#### SODIUM DICHROMATE

##### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.1 < L(E)C50 ≤ 1

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<b>M factor (Acute)</b>	1
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hour: 13 mg/l, Freshwater fish
<b>Acute toxicity - aquatic invertebrates</b>	, 24 hours: 1.5 mg/l,
<b>Acute toxicity - aquatic plants</b>	NOEC, 8 day: 0.1 mg/l, Algae
<b><u>Chronic aquatic toxicity</u></b>	
<b>M factor (Chronic)</b>	1

### SULPHURIC ACID ...%

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 42 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , : 29 mg/l, Daphnia magna

#### Persistence and degradability

**Persistence and degradability** No data available.

#### Bioaccumulative potential

**Bio-Accumulative Potential** The product does not contain any substances expected to be bioaccumulating.

#### Mobility in soil

**Mobility** The product is soluble in water.

#### Other adverse effects

**Other adverse effects** Not determined.

### 13. Disposal considerations

#### Waste treatment methods

**General information** Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### 14. Transport information

#### UN Number

<b>UN No. (TDG)</b>	3289
<b>UN No. (IMDG)</b>	3289
<b>UN No. (ICAO)</b>	3289
<b>UN No. (DOT)</b>	3289

#### UN proper shipping name

**Proper shipping name (TDG)** TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (SODIUM DICHROMATE)

**Proper shipping name (IMDG)** TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (SODIUM DICHROMATE)

**Proper shipping name (ICAO)** TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (SODIUM DICHROMATE)

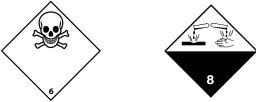
## CHROMATE CONVERSION COATING

**Proper shipping name (DOT)** TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (SODIUM DICHROMATE)

**Transport hazard class(es)**

<b>TDG class</b>	6.1
<b>TDG subsidiary risk</b>	8
<b>TDG label(s)</b>	6.1 & 8
<b>IMDG Class</b>	6.1
<b>IMDG subsidiary risk</b>	8
<b>ICAO class/division</b>	6.1
<b>ICAO subsidiary risk</b>	8

**Transport labels**



**Packing group**

<b>TDG Packing Group</b>	II
<b>IMDG packing group</b>	II
<b>ICAO packing group</b>	II
<b>DOT packing group</b>	II

**Environmental hazards**

**Environmentally Hazardous Substance**



**Special precautions for user**

**EmS** F-A, S-B

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information required.

### 15. Regulatory information

**US Federal Regulations**

**SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

Sulfuric Acid 1000 lbs

**CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

Sodium Bichromate  
Final CERCLA RQ: 10 lbs  
Sulfuric Acid  
Final CERCLA RQ: 1000 lbs

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

Sulfuric Acid  
EPCRA RQ: 1000 lbs



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### SARA 313 Emission Reporting

Sodium Bichromate

### CAA Accidental Release Prevention

Exempt.

### SARA (311/312) Hazard Categories

Acute  
Chronic

### OSHA Highly Hazardous Chemicals

Exempt.

### US State Regulations

#### California Proposition 65 Carcinogens and Reproductive Toxins

Exempt.

#### California Directors List of Hazardous Substances

Sodium Bichromate  
Sulfuric Acid

### Inventories

#### US - TSCA

All ingredients are present.

### 16. Other information

#### Classification abbreviations and acronyms

Acute Tox. = Acute toxicity  
Carc. = Carcinogenicity  
Eye Dam. = Serious eye damage  
Eye Irrit. = Eye irritation  
Flam. Liq. = Flammable liquid  
Muta. = Germ cell mutagenicity  
Repr. = Reproductive toxicity  
Resp. Sens. = Respiratory sensitisation  
Skin Corr. = Skin corrosion  
Skin Irrit. = Skin irritation  
Skin Sens. = Skin sensitisation  
STOT RE = Specific target organ toxicity-repeated exposure  
STOT SE = Specific target organ toxicity-single exposure

Revision date 8/25/2017

Revision 4

SDS No. 20428

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<b>Hazard statements in full</b>	<p>H272 May intensify fire; oxidizer.</p> <p>H301 Toxic if swallowed.</p> <p>H312 Harmful in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H330 Fatal if inhaled.</p> <p>H332 Harmful if inhaled.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H340 May cause genetic defects.</p> <p>H350 May cause cancer.</p> <p>H360FD May damage fertility. May damage the unborn child.</p> <p>H372 Causes damage to organs through prolonged or repeated exposure.</p> <p>H400 Very toxic to aquatic life.</p> <p>H402 Harmful to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>
<b>NFPA - instability hazard</b>	Normally stable. (0)
<b>NFPA - health hazard</b>	Extremely hazardous, serious injury. (3)
<b>NFPA - flammability hazard</b>	Will not burn. (0)

The Information in this data sheet is believed to be correct but neither we nor our employees or agents give any warranty or make any representation to the accuracy thereof and accept no liability for any loss, injury or damage which may result in it's use. The sole purpose of this data sheet is to provide guidance on the safe handling and use of the products to which it relates. It does not form part of any product specification nor part of any contract. It is not practical for the guidance and information in this data sheet to cover every conceivable application of a product and as we may not be aware of the use to which the products covered by this data sheet are to be put it remains the responsibility of the user to conduct it's own tests and to satisfy itself as to the suitability of the product.