

## Basic Chromium Chloride Solution

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### 1. PRODUCT AND COMPANY IDENTIFICATION

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**Product Name:** Basic Chromium Chloride Solution

**Manufacturer:** Sentury Reagents, Inc  
2515 Commerce Drive  
Rock Hill, SC  
29730

**Telephone:** 803-327-6880

**Fax:** 803-327-3872

**In Case of Emergency Call:** PERS- 800-633-8253 International: 011-801-629-0667  
Acct. 10613 (24 Hours/Day, 7 Days/Week)

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### 2. HAZARDS IDENTIFICATION

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**Classification** Skin Corrosion/Irritant 1B Serious Eye Damage/Irritant 1B Acute Toxicity Oral 4  
Skin Sensitizer 1B Respiratory Sensitizer 1B

**Signal Word** Danger

**OSHA Hazards:** Carcinogen, Target Organ Effect, Toxic by ingestion, Skin sensitizer, Irritant, Mutagen

**Target Organs:** Lungs, Kidney, Liver, Blood, Skin, Eyes

**Pictograms:**



**Hazard Statements** H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335 - May cause respiratory irritation

**Precautionary Statements**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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  
P308 + P313 - IF exposed or concerned: Get medical attention/advice

**HMIS Classification**

Health Hazard: 2  
 Flammability: 0  
 Physical hazards: 1  
 Personal protection: C

**NFPA Rating**

Health Hazard: 2  
 Fire: 0  
 Reactivity Hazard: 1

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	Weight %	CAS #	EC No.	Classification	Reach Reg No.
Chromium (III) chloride hexahydrate	48-65	10060-12-5	-	-	Not Available

**4. FIRST-AID MEASURES**

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician if necessary.
Inhalation	Move to fresh air. If breathing becomes difficult, give oxygen. May cause allergic respiratory reaction. If symptoms arise, call a physician.
Ingestion	Clean mouth with water and afterwards drink plenty of water. DO NOT induce vomiting unless directed to do so by a physician or poison control center.
Notes to Physician	Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

<b>Flammable Properties</b>	Not flammable.
<b>Flash Point</b>	Not determined
<b>Suitable Extinguishing Media</b>	Dry chemical, CO2, water spray or regular foam.
<b>Hazardous Combustion Products</b>	Hydrogen Chloride gas.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	Not sensitive.
<b>Sensitivity to Static Discharge</b>	Not sensitive.
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Personal Precautions</b>	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Cleaning Up</b>	Avoid dust formation. Pick up and transfer to properly labeled containers. Wash spill site with soap solution and flush area with copious amounts of water

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## 7. HANDLING AND STORAGE

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<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Hygroscopic.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.
<b>Incompatible Products</b>	Oxidizing agents.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Component	Exposure Limits	Basis	Entity
Chromium (III) chloride hexahydrate 10060-12-5	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	IDLH: 25 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>

<b>Engineering Measures</b>	Showers Eyewash stations Ventilation systems.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Tightly fitting safety goggles.
<b>Skin and Body Protection</b>	Wear protective gloves/clothing.
<b>Respiratory Protection</b>	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.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	<b>Dark green</b>
<b>Odor</b>	No information available
<b>Odor Threshold</b>	No information available
<b>Decomposition Temperature °C</b>	No information available
<b>Freezing Point</b>	No information available
<b>Initial Boiling Point</b>	No information available
<b>Physical State</b>	liquid
<b>pH</b>	(as 5% solution) ~2.5
<b>Flash Point</b>	Not determined
<b>Autoignition Temperature</b>	No data available
<b>Boiling Point/Range</b>	No data available
<b>Melting Point/Range</b>	No data available

<b>Flammability Limits in Air</b>	
Upper	No data available
Lower	No data available
<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available
<b>Evaporation Rate</b>	No data available
<b>MMHG @ 37.8 C</b>	No data available
<b>Vapor Density</b>	No data available
<b>Specific Gravity</b>	No data available
<b>Solubility</b>	No information available
<b>Partition Coefficient</b> (n-octanol/water)	No data available
<b>Viscosity</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Possibility of Hazardous Reactions</b>	Will not occur.
<b>Conditions to Avoid</b>	Hygroscopic.
<b>Incompatible Materials</b>	Oxidizing agents.
<b>Hazardous Decomposition Products</b>	Hydrogen chloride gas.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information** Corrosive, causes burns. Harmful if swallowed. Sensitizer.

Chemical Name	LD50 Oral	LC50 Inhalation	LC50 Inhalation
Chromium (III) chloride hexahydrate	1790 mg/kg ( Rat )		

### Chronic Toxicity

**Chronic Toxicity** No known effect based on information supplied.

**Target Organ Effects** Liver, kidney, and respiratory system.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method</b>	Dispose of material in accordance with all federal, state, and local regulations.
<b>Contaminated Packaging</b>	Dispose of in accordance with all federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

US DOT	UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (Chromium Chloride Solution), 8, III
TDG	UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (Chromium Chloride Solution), 8, III
IMDG	UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (Chromium Chloride Solution), 8, III
Marine Pollutant	No
IATA/ICAO	UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (Chromium Chloride Solution), 8, III

## 15. REGULATORY INFORMATION

**REACH Title VII Restrictions** No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Chromium (III) chloride hexahydrate	>=0.1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II	
Chromium (III) chloride hexahydrate 10060-12-5 ( 95-100 )	Not applicable	Not applicable	Not applicable	>= 0.1 %	Not applicable	

### International Inventories

TSCA	DOES NOT COMPLY
EINECS/ELINCS	DOES NOT COMPLY
ENCS	COMPLIES
IECSC	COMPLIES
KECL	DOES NOT COMPLY
PICCS	COMPLIES
AICS	COMPLIES

### **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
Chromium (III) chloride hexahydrate 10060-12-5 ( 95-100 )		X		

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act..

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone
Chromium (III) chloride hexahydrate	10060-12-5	48-65	Present (includes any unique chemical substance that contains Chromium as part of its infrastructure)			

**CERCLA**

Chemical	Hazardous Substances RQs	Extremely Hazardous Substances
Chromium (III) chloride hexahydrate		1 lb

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Chromium (III) chloride hexahydrate	X	X	X	X	X

**International Regulations****Mexico - Grade**

Chemical	Carcinogen Status	Exposure Limits
Chromium (III) chloride hexahydrate		Mexico: TWA 0.5 mg/m <sup>3</sup>

**Canada****WHMIS Hazard**

**Class D2A Very**

toxic materials

D2B Toxic

materials

E Corrosive material



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## 16. OTHER INFORMATION

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**Further information:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sentury Reagents, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.