

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	Basic Chromium Sulfate Solution
CAS #	12336-95-7
Manufacturer	Sentury Reagents, Inc. 2515 Commerce Dr. Rock Hill, SC 29730
Telephone	803-327-6880
Fax	803-327-3872
Emergency Phone # and Account	PERS 800-633-8253 or International: 011-801-629-0667 10613

**2. HAZARDS IDENTIFICATION**
**Hazard Classification**

Skin Irritant

**GHS Label elements, including precautionary statements**

Pictogram



Signal word WARNING

**Hazard statement(s)**

H315 Causes skin irritation

**Precautionary statement(s)**

P264	Wash hands and face thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352	If on skin wash with plenty of water with mild soap.
P332+P313	If skin irritation occurs: get medical attention
P362+P364	Take off contaminated clothing and wash before reuse.

**HMIS Classification**

<b>Health hazard:</b>	1
<b>Flammability:</b>	0
<b>Physical hazards:</b>	0
<b>Personal Protection</b>	<b>C</b>

**NFPA Rating**

<b>Health hazard:</b>	1
<b>Fire:</b>	0
<b>Reactivity hazard:</b>	0

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

 Formula :  $\text{Cr}_2(\text{SO}_4)_2\text{OH}$ 

Component	Concentration
<b>Chromium (III) Sulfate Basic</b>	
CAS-No.	12336-95-7
	17-25%
<b>Water</b>	
CAS-No.	7732-18-5
	77-83%

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#### 4. FIRST AID MEASURES

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

Remove victim to fresh air. Employ artificial respiration if indicated. Seek medical attention

**In case of skin contact**

Wash affected area with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical attention.

**In case of eye contact**

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.

**If swallowed**

Rinse mouth thoroughly with water immediately. Give water or milk to drink. DO NOT induce vomiting. Seek medical attention.

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#### 5. FIRE-FIGHTING MEASURES

**Conditions of flammability**

Material does not burn. Fire or heat will produce irritating, poisonous and/or corrosive gasses.

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Special protective equipment for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

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#### 6. ACCIDENTAL RELEASE MEASURES

**Spills & Disposal**

Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal.

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#### 7. HANDLING AND STORAGE

**Precautions for safe handling**

Only use in well-ventilated areas. Avoid generation or accumulation of dusts. Avoid prolonged or repeated contact with skin, eyes and clothing.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value	Control parameters	Basis
Chromium (III) sulfate basic	12336-95-7	TWA	0.5 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)

**Personal protective equipment****Respiratory protection**

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 – Respiratory Protective Devices and be selected in accordance with AS 1715 – Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-face piece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.

**Skin and body protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	Solid
Colour	Green to blue liquid

### Safety data

pH	2-3
Melting point/ Freezing point	no data available
Boiling point	no data available
Flash point	not applicable
Ignition temperature Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Specific Gravity	1.2 – 1.3
Water solubility	Soluble
Partition coefficient: n-octanol/ Relative vapour density	no data available
Odour	None
Odour Threshold	no data available
Evaporation rate	no data available

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

Incompatibles.

### Materials to avoid

Strong oxidizing agents, lithium, nitroalkanes, dirubidium acetylide, oxygen difluoride, chlorine trifluoride.

### Hazardous decomposition products

Sulfur and Chromium oxides.

### Hazardous Polymerization

Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - mouse - > 3,500 mg/kg

#### Other information on acute toxicity

no data available

### Skin

Harmful in contact with skin. Causes skin burns.

### Eyes

Irritating to eyes.

### Inhalation

Harmful by inhalation. Causes irritation and burns to mucous membrane of throat and upper respiratory system. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

### Germ cell mutagenicity

No evidence of mutagenic properties.

**Carcinogenicity**

Not classified as human carcinogen.

**Reproductive toxicity**

no data available

**Teratogenicity**

no data available

**Synergistic effects**

no data available

**Additional Information**

RTECS: GB2975000

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**12. ECOLOGICAL INFORMATION****Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility**

no data available

**PBT and vPvB assessment**

no data available

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**13. DISPOSAL CONSIDERATIONS**

**Product:** Dispose of according to relevant local, state and federal government regulations.

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**14. TRANSPORT INFORMATION****DOT (US)**

Not Dangerous Goods

**IMDG**

Not Dangerous Goods

**IATA**

Not Dangerous Goods

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**15. REGULATORY INFORMATION****OSHA Hazards**

No known OSHA hazards

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313:

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**16. OTHER INFORMATION**

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.