

# **Safety Data Sheet**

Revision Date 12/16/15

#### 1. PRODUCT AND COMPANY IDENTIFACTION

Product name Chromium Sulfate Solution

CAS # 10101-53-8

Manufacturer Sentury Reagents, Inc.

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# 2. HAZARDS IDENTIFICATION

#### **OSHA Hazards**

Toxic by inhalation, Harmful by ingestion, Harmful by skin absorption, Corrosive

### **Target Organs**

None Pictogram



Signal word DANGER

### **GHS Classification**

Acute toxicity, Inhalation
Acute toxicity, Dermal
Acute toxicity, Oral
Acute toxicity, Oral
Skin corrosion
Category 4
Category 4
Category 4
Category 1B
Category 1

# GH3 Label elements, including precautionary statements

#### **Hazard Statements:**

H318 Causes serious eye damage.

H302+H312 Harmful if swallowed or in contact with skin.

H332 Harmful if inhaled.

# **Precautionary Statements:**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do so. Continue rinsing.

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### **Potential Health Effects**

**Eves** Causes eve burns.

Inhalation Toxic if inhaled. Material is extremely destructive to the tissue of the mucous

membranes and upper respiratory tract.

Skin Causes skin burns. Ingestion Toxic if swallowed.

**HMIS Classification NFPA** Rating

Health hazard: 2 2 Health hazard: 0 Flammability: Fire: 0 0 Reactivity hazard: Reactivity hazard: 0 Personal protection F Personal hazard:

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS#/ ELINCS#	Formula	Molecular Weight
Chromium Sulfate	6-25	10101-53-8	233-253-2	$Cr_2(SO_4)_3 \cdot nH_2O$	392.18 g/mol

#### 4. FIRST AID MEASURES

**Eves** Rinse with plenty of water for at least 15 minutes and seek medical attention.

Inhalation Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not

breathing, give artificial respiration. Get medical attention.

Skin Flush with plenty of water for at least 15 minutes while removing contaminated clothing and

wash using soap. Get medical attention.

Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If Ingestion

conscious, wash out mouth with water. Get medical attention.

### 5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media

Special protective equipment and precautions for firefighters Specific hazards arising from

the chemical

Product is not flammable. Use appropriate media for adjacent fire. Cool

containers with water.

Wear self-contained, approved breathing apparatus and full protective

clothing, including eye protection and boots.

Emits toxic fumes (sulfur oxides, chromium oxides) under fire

conditions. (See also Stability and Reactivity section).

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8 for recommendations on the use of personal protective equipment.

**Environmental precautions** Prevent spillage from entering drains. Any release to the environment may

be subject to federal/national or local reporting requirements.

Methods and materials for containment and cleaning up

Pick up and arrange spillage without creating dust. Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup

materials in accordance with regulations.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

### Conditions for safe storage

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure controls:

Component	<b>Exposure Limits</b>	Basis	Entity
Chromium Sulfate	0.5 mg/m <sup>3</sup>	PEL	OSHA
	0.5 mg/m³ 0.5 mg/m³	TLV REL	ACGIH NIOSH

TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels

**CEIL: Ceiling** 

#### **Personal Protection**

**Eyes** Wear chemical safety glasses or goggles.

**Inhalation** Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an

approved respirator.

**Skin** Wear nitrile or rubber gloves, apron or lab coat.

Other Not Available

#### **Other Recommendations**

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

Not Available

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)

Green to Blue Liquid

Odor threshold Not Available рΗ Not Available Melting point/freezing point 100°C (212°F) Initial boiling point and boiling range Not Available Flash point Not Available Evaporation rate Not Available Flammability (solid, gas) Not Available Upper/lower flammability or explosive limit Not Available Vapor pressure Not Available Vapor density Not Available Density 3.01 g/cm3

Solubility (ies) Soluble in water, methanol.

Partition coefficient: n-octanol/water Not Available
Auto-ignition temperature Not Available
Decomposition temperature Not Available

Odor

#### 10. STABILITY AND REACTIVITY

Chemical Stability Stable

**Possibility of Hazardous Reactions** Will not occur. **Conditions to Avoid** Not Available

**Incompatible Materials** Strong oxidizing agents.

Hazardous Decomposition Products Sulfur oxides, chromium oxides.

#### 11. TOXICOLOGICAL INFORMATION

# **Acute toxicity**

SkinNot AvailableEyesNot AvailableRespiratoryNot AvailableIngestionNot Available

# Carcinogenicity

IARC No components of this product present at levels greater than or equal to 0.1% is identified

as probable, possible or confirmed human carcinogen by IARC.

**ACGIH** No components of this product present at levels greater than or equal to 0.1% is identified

as a carcinogen or potential carcinogen by ACGIH.

NTP No components of this product present at levels greater than or equal to 0.1% is identified

as a known or anticipated carcinogen by NTP.

OSHA No components of this product present at levels greater than or equal to 0.1% is identified

as a carcinogen or potential carcinogen by OSHA.

# Signs & Symptoms of Exposure

Skin Itching, swelling, redness, pain.

Eyes Itching, swelling, redness, pain.

**Respiratory** Upper respiratory tract and mucous membrane irritation.

**Ingestion** Nausea, vomiting.

Chronic ToxicityNot AvailableTeratogenicityNot AvailableMutagenicityNot AvailableEmbryotoxicityNot AvailableSpecific Target Organ ToxicityNot Available

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Aquatic VertebrateNot AvailableAquatic InvertebrateNot AvailableTerrestrialNot Available

Persistence and Degradability
Bioaccumulative Potential
Mobility in Soil
PBT and vPvB Assessment
Other Adverse Effects
Not Available
Not Available
Not Available

### 13. DISPOSAL CONSIDERATIONS

**Waste Residues** Users should review their operations in terms of the applicable federal/national or

local regulations and consult with appropriate regulatory agencies if necessary before

disposing of waste products or residues.

**Product** Users should review their operations in terms of the applicable federal/national or Containers

local regulations and consult with appropriate regulatory agencies if necessary

before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

### 14. TRANSPORT INFORMATION

**US DOT** UN3264 Corrosive Liquid, Acidic, Inorganic n.o.s. (Chromium Sulfate Solution),

**IMDG** UN3264 Corrosive Liquid, Acidic, Inorganic n.o.s. (Chromium Sulfate Solution),

8. III

Marine Pollutant No

IATA/ICAO UN3264 Corrosive Liquid, Acidic, Inorganic n.o.s. (Chromium Sulfate Solution),

8. III

#### 15. REGULATORY INFORMATION

**TSCA Inventory Status** All ingredients are listed on the TSCA inventory. DSCL (EEC) All ingredients are listed on the DSCL inventory.

California Proposition 65 No SARA hazards. **SARA 302** No SARA hazards. **SARA 304** No SARA hazards. **SARA 311** No SARA hazards. **SARA 312** No SARA hazards. **SARA 313** Listed: Chromium sulfate.

WHMIS Canada Not controlled under WHMIS.

#### 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.

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