

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	Sodium Chromate Solution
Manufacturer	Sentury Reagents, Inc. 2515 Commerce Dr. Rock Hill, SC 29730
Telephone	803-327-6880
Fax	803-327-3872
Emergency Phone #	PERS: 633-8253
International Phone #	011-801-629-0667
Account	10613

**2. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Carcinogen, Target Organ Effect, Highly toxic by inhalation, Toxic by ingestion, Harmful by skin absorption., Respiratory sensitiser, Corrosive, Reproductive hazard

**Target Organs**

Lungs, Kidney

**GH3 Label elements, including precautionary statements**

Pictogram



Signal word Danger

Hazard statement(s)

H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H400	Very toxic to aquatic life.

Precautionary statement(s)	
P201	Obtain special instructions before use.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.

#### HMIS Classification

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	0
Physical hazards:	0
Personal protection:	F

#### NFPA Rating

Health hazard:	4
Fire:	0
Reactivity Hazard:	0

#### Potential Health Effects

<b>Inhalation</b>	May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
<b>Skin</b>	Harmful if absorbed through skin. Causes skin burns. May be fatal if absorbed through skin.
<b>Eyes</b>	Causes eye burns.
<b>Ingestion</b>	Toxic if swallowed. Causes burns.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula	: $\text{CrNa}_2\text{O}_4 \cdot 4\text{H}_2\text{O}$
Molecular Weight	: 161.97 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Sodium chromate</b>			
10034-82-9	231-889-5	024-018-00-3	20%-40%

### 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

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Conditions for safe storage

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

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Sodium chromate	7775-11-3	TWA	0.005 mg/m <sup>3</sup>	2006-11-27	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
Remarks	See 1910.1026. See Table Z-2 for the exposure Table Z-2 for the exposure limit for any operations or sectors where the exposure limit in 1910.1026 is stayed or are otherwise not				
		CEIL	0.001 mg/m <sup>3</sup>	2006-11-27	USA. Occupational Exposure Limits (OSHA) - Table Z2
	This standard applies to any operations or sectors for which the exposure limit in the Chromium (VI) standard, Sec. 1910.1026, is stayed or is otherwise not in effect. Z37.7-1971				
		CEIL	0.1 mg/m <sup>3</sup>	1989-03-01	USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
	See Table Z-2.				
		TWA	0.05 mg/m <sup>3</sup>	1994-09-01	USA. ACGIH Threshold Limit Values (TLV)
	Confirmed human carcinogen: The agent is carcinogenic to humans based on the weight of evidence from epidemiologic studies. NOC = not otherwise classified. 1994-1995 Adoption Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Substances for which the TLV is higher than the OSHA Permissible Exposure Limit (PEL) and/or the NIOSH Recommended Exposure Limit (REL). See CFR 58(124) :36338-33351, June 30, 1993, for revised OSHA PEL. Substance identified by other sources as a suspected or confirmed human carcinogen. Refers to Appendix A -- Carcinogens.				

	Substance listed; for more information see OSHA document 1910.1026
	See 1910.1026. See Table Z-2 for the exposure limit for any operations or sectors where the exposure limit in 1910.1026 is stayed or are otherwise not in effect.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

#### Eye protection

Face shield and safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	yellow

### Safety data

pH	no data available
Melting point	not applicable
Boiling point	no data available
Flash point	not applicable
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

no data available

### Materials to avoid

Strong reducing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Sodium oxides, Chromium oxides

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - 52 mg/kg

LC50 Inhalation - rat - 4 h - 100

mg/m<sup>3</sup> LD50 Dermal - rabbit - 1,600

mg/kg

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

May cause allergic respiratory reaction.

### Germ cell mutagenicity

May alter genetic material.

In vivo tests showed mutagenic effects

### Carcinogenicity

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC: 1 - Group 1: Carcinogenic to humans (Sodium chromate)

1 - Group 1: Carcinogenic to humans (Sodium chromate)

NTP: Known to be human carcinogen (Sodium chromate)

OSHA: 1910.1026 (Sodium chromate)

### Reproductive toxicity

Presumed human reproductive toxicant

May cause reproductive disorders.

### Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

### Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

### Potential health effects

#### Inhalation

May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

#### Ingestion

Toxic if swallowed. Causes burns.

#### Skin Eyes

Harmful if absorbed through skin. Causes skin burns. May be fatal if absorbed through skin.  
Causes eye burns.

### Additional Information

RTECS: GB2955000

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## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 17.6 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates. EC50- Daphnia magna (Water flea) – 0.021 mg/l – 48h

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

### DOT (US)

UN-Number: 3287 Class: 6.1 Packing group: III  
Proper shipping name: Toxic liquids, inorganic, n.o.s. (Sodium chromate Solution)  
Reportable Quantity (RQ): 10 lbs  
Marine pollutant: No  
Poison Inhalation Hazard: No

### IMDG

UN-Number: 3287 Class: 6.1 Packing group: III EMS-No: F-A, S-A  
Proper shipping name: Toxic liquids, inorganic, n.o.s. (Sodium chromate Solution)  
Marine pollutant: No

### IATA

UN-Number: 3287 Class: 6.1 Packing group: III  
Proper shipping name: Toxic liquids, inorganic, n.o.s. (Sodium chromate Solution)

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## 15. REGULATORY INFORMATION

### OSHA Hazards

Carcinogen, Target Organ Effect, Highly toxic by inhalation, Toxic by ingestion, Harmful by skin absorption., Respiratory sensitiser, Corrosive, Reproductive hazard

### DSL Status

All components of this product are on the Canadian DSL list.

### 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**

Sodium chromate

CAS-No. 7775-11-3

Revision Date  
2007-03-01**SARA 311/312 Hazards**

Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

Sodium chromate

CAS-No. 7775-11-3

Revision Date  
2007-03-01**Pennsylvania Right To Know Components**

Sodium chromate

CAS-No. 7775-11-3

Revision Date  
2007-03-01**New Jersey Right To Know Components**

Sodium chromate

CAS-No. 7775-11-3

Revision Date  
2007-03-01**California Prop. 65 Components**WARNING! This product contains a  
chemical known to the State of  
California to cause cancer.  
Sodium chromate

CAS-No. 7775-11-3

Revision Date  
2007-03-01**California Prop. 65 Components**WARNING! This product contains a  
chemical known to the State of  
California to cause birth defects or  
other reproductive harm.  
Sodium chromate

CAS-No. 7775-11-3

Revision Date  
2007-03-01

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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.