# Safety Data Sheet

Revision Date 12/16/15

## 1. PRODUCT AND COMPANY IDENTIFACTION

| | |
|---|---|
| Product name | Sodium Chromate Solution |
| Manufacturer | Sentury Reagents, Inc.<br>2515 Commerce Dr.<br>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**

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : $CrNa_2O_4 \cdot 4H_2O$

Molecular Weight : 161.97 g/mol

| CAS-No. | EC-No. | Index-No. | Concentration |
|---|---|---|---|
| **Sodium chromate** | | | |
| 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.

## 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.

## 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.

## 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

## 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/m3 | 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/m3 | 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/m3 | 1989-03-01 | USA. OSHA - TABLE Z-1 Limits for Air Contaminants - |
| | See Table Z-2. | | | | |
| | | TWA | 0.05 mg/m3 | 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.<br>NOC = not otherwise classified.<br>1994-1995 Adoption<br>Substances for which there is a Biological Exposure Index or Indices (see BEI® section)<br>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.<br>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

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

LD50 Oral - rat - 52 mg/kg

LC50 Inhalation - rat - 4 h - 100

mg/m3 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** | Harmful if absorbed through skin. Causes skin burns. May be fatal if absorbed through skin. |
| **Eyes** | Causes eye burns. |

**Additional Information**
RTECS: GB2955000

## 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.

## 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.

## 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)

## 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 |

## 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.