



Health	1
Fire	0
Reactivity	0
Personal Protection	G

## Material Safety Data Sheet

### Sodium Chromate, 1% (w/v) MSDS

#### Section 1: Chemical Product and Company Identification

**Product Name:** Sodium Chromate, 1% (w/v)

**Catalog Codes:** SLS4465

**CAS#:** Mixture.

**RTECS:** Not applicable.

**TSCA:** TSCA 8(b) inventory: Water

**CI#:** Not available.

**Synonym:**

**Chemical Name:** Not applicable.

**Chemical Formula:** Not applicable.

**Contact Information:**

**Sciencelab.com, Inc.**

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: [ScienceLab.com](http://ScienceLab.com)

**CHEMTREC (24HR Emergency Telephone), call:**

1-800-424-9300

**International CHEMTREC, call:** 1-703-527-3887

**For non-emergency assistance, call:** 1-281-441-4400

#### Section 2: Composition and Information on Ingredients

**Composition:**

Name	CAS #	% by Weight
Sodium chromate tetrahydrate	10034-82-9	1
Water	7732-18-5	99

**Toxicological Data on Ingredients:** Sodium chromate tetrahydrate: DERMAL (LD50): Acute: 101 mg/kg [Rabbit].

#### Section 3: Hazards Identification

**Potential Acute Health Effects:**

Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation (lung sensitizer). Severe over-exposure can result in death.

**Potential Chronic Health Effects:**

**CARCINOGENIC EFFECTS:** Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC [Sodium chromate tetrahydrate]. **MUTAGENIC EFFECTS:** Mutagenic for mammalian somatic cells. [Sodium chromate tetrahydrate]. Mutagenic for bacteria and/or yeast. [Sodium chromate tetrahydrate]. **TERATOGENIC EFFECTS:** Not available. **DEVELOPMENTAL TOXICITY:** Not available. The substance may be toxic to blood, kidneys, liver, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

#### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

**Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Serious Inhalation:** Not available.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

## Section 5: Fire and Explosion Data

**Flammability of the Product:** Non-flammable.

**Auto-Ignition Temperature:** Not applicable.

**Flash Points:** Not applicable.

**Flammable Limits:** Not applicable.

**Products of Combustion:** Not available.

**Fire Hazards in Presence of Various Substances:** organic materials, combustible materials

**Explosion Hazards in Presence of Various Substances:** Non-explosive in presence of open flames and sparks, of shocks.

**Fire Fighting Media and Instructions:** Not applicable.

**Special Remarks on Fire Hazards:**

Toxic chromium oxide fumes may form in fire. May increase intensity of fire when in contact with combustible material. Contact with combustible or organic materials may cause fire. When heated to decomposition it emits toxic fumes of sodium oxide (Sodium Chromate tetrahydrate)

**Special Remarks on Explosion Hazards:** Hydrazine is decomposed explosively by chromates (Sodium chromate tetrahydrate)

## Section 6: Accidental Release Measures

**Small Spill:**

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Poisonous liquid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Finish

cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

## Section 7: Handling and Storage

### Precautions:

Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8: Exposure Controls/Personal Protection

### Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

### Personal Protection:

Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### Exposure Limits:

Sodium chromate tetrahydrate TWA: 0.05 (mg(Cr)/m) from ACGIH (TLV) [United States] Consult local authorities for acceptable exposure limits.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Liquid.

**Odor:** Odorless.

**Taste:** Not available.

**Molecular Weight:** Not applicable.

**Color:** Clear Yellow.

**pH (1% soln/water):** Neutral.

**Boiling Point:** The lowest known value is 100°C (212°F) (Water).

**Melting Point:** Not available.

**Critical Temperature:** Not available.

**Specific Gravity:** Weighted average: 1.01 (Water = 1)

**Vapor Pressure:** The highest known value is 2.3 kPa (@ 20°C) (Water).

**Vapor Density:** The highest known value is 0.62 (Air = 1) (Water).

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** See solubility in water.

**Solubility:** Easily soluble in cold water, hot water.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Incompatible materials

**Incompatibility with various substances:** Slightly reactive to reactive with combustible materials, organic materials.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:**

Any combustible, organic, or readily oxidizable material (paper, wood, sulfur, aluminum, plastics) (Sodium chromate tetrahydrate)

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Absorbed through skin. Eye contact.

**Toxicity to Animals:** Acute dermal toxicity (LD50): 10100 mg/kg (Rabbit) (Calculated value for the mixture).

**Chronic Effects on Humans:**

CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC [Sodium chromate tetrahydrate]. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. [Sodium chromate tetrahydrate]. Mutagenic for bacteria and/or yeast. [Sodium chromate tetrahydrate]. Contains material which may cause damage to the following organs: blood, kidneys, liver, upper respiratory tract.

**Other Toxic Effects on Humans:**

Hazardous in case of skin contact (sensitizer). Slightly hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (corrosive), of ingestion, of inhalation (lung sensitizer, lung corrosive).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:**

May affect genetic material (mutagenic). May cause adverse reproductive effects based on animal test data. (Sodium chromate tetrahydrate)

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects: Skin: It can cause skin irritation. It can be absorbed through the skin and cause systemic effects. If absorbed through the skin, it may affect behavior/central nervous system/nervous system (somnolence, muscle weakness, flaccid paralysis without anesthesia), respiration, liver function, urinary system (kidney function) if absorbed through skin. May cause skin sensitization or dermatitis. Eyes: Contact can cause eye irritation. Inhalation: It may respiratory tract and mucous membrane irritation. Symptoms may include sore throat, coughing, shortness of breath, and labored breathing. It may product pulmonary edema, sensitization or allergic asthma. Higher exposures may cause pulmonary edema. Ingestion: Ingestion can cause gastrointestinal tract irritation (gastroenteritis), nausea, vomiting, diarrhea, abdominal pain. It may cause e liver damage (elevated liver enzymes, acute hepatic failure), kidney damage (acute renal failure, renal tubular necrosis, nephritis), mydriasis, and may affect behavior (somnolence, dizziness, coma), respiration, cardiovascular system (hypotension, hypertension, circulatory collapse), blood. Chronic Potential Health Effects: Repeated or prolonged exposure can cause respiratory tract irritation, bronchitis, plmonary fibrosis, emphysema, asthma, liver and kidney damage.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are less toxic than the product itself.

**Special Remarks on the Products of Biodegradation:** Not available.

### Section 13: Disposal Considerations

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### Section 14: Transport Information

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

### Section 15: Other Regulatory Information

**Federal and State Regulations:**

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Sodium chromate tetrahydrate  
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Sodium chromate tetrahydrate  
Connecticut hazardous material survey.: Sodium chromate tetrahydrate  
Illinois chemical safety act: Sodium chromate tetrahydrate  
New York release reporting list: Sodium chromate tetrahydrate  
Pennsylvania RTK: Sodium chromate tetrahydrate  
Massachusetts RTK: Sodium chromate tetrahydrate  
Massachusetts spill list: Sodium chromate tetrahydrate  
New Jersey: Sodium chromate tetrahydrate  
New Jersey spill list: Sodium chromate tetrahydrate  
Louisiana spill reporting: Sodium chromate tetrahydrate  
California Director's List of Hazardous Substances: Sodium Chromate Tetrahydrate  
TSCA 8(b) inventory: Water SARA 313 toxic chemical notification and release reporting: Sodium chromate tetrahydrate  
1% CERCLA: Hazardous substances.: Sodium chromate tetrahydrate: 10 lbs. (4.536 kg);

**Other Regulations:** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

**DSCL (EEC):**

R23- Toxic by inhalation. R43- May cause sensitization by skin contact. R46- May cause heritable genetic damage. R49- May cause cancer by inhalation. S1/2- Keep locked up and out of the reach of children. S24- Avoid contact with skin. S37- Wear suitable gloves. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S46- If swallowed, seek medical advice immediately and show this container or label. S53- Avoid exposure - obtain special instructions before use.

**HMIS (U.S.A.):**

**Health Hazard:** 1

**Fire Hazard:** 0

**Reactivity:** 0

**Personal Protection:** g

**National Fire Protection Association (U.S.A.):**

**Health:** 1

**Flammability:** 0

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:**

Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

## Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

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