Material Safety Data Sheet  
Potassium Chromate, 1% (w/v) MSDS

Section 1: Chemical Product and Company Identification

Product Name: Potassium Chromate, 1% (w/v)  
Catalog Codes: SLP4285  
CAS#: Mixture.  
RTECS: Not applicable.  
TSCA: TSCA 8(b) inventory: Water; Potassium chromate  
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  
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:

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
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<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
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</tr>
<tr>
<td>Potassium chromate</td>
<td>7789-00-6</td>
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</tbody>
</table>

Toxicological Data on Ingredients: Potassium chromate: ORAL (LD50): Acute: 180 mg/kg [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects:  
Hazardous in case of skin contact (sensitizer). Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation (lung sensitizer). Non-corrosive for lungs.

Potential Chronic Health Effects:  
CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC [Potassium chromate]. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. [Potassium chromate]. Mutagenic for bacteria and/or yeast. [Potassium chromate]. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, lungs, liver, upper respiratory tract, skin, eyes. Repeated or prolonged exposure to the substance can produce target organs damage.

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 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. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

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**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:** Not applicable.

**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:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

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**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:**
Absorb with an inert material and put the spilled material in an appropriate waste 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.

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**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.

**Personal Protection:** Safety glasses. Lab coat. Gloves.

**Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Potassium chromate 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:** Not available.

**Taste:** Not available.

**Molecular Weight:** Not applicable.

**Color:** Colorless to light 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: Not available

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Hydrazine, combustible, organic, or other readily oxidizable materials: wood, paper, sulfur, aluminum, plastics, chromic acid, chromates. (Potassium chromate)

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

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### Section 11: Toxicological Information

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

**Toxicity to Animals:** Acute oral toxicity (LD50): 18000 mg/kg (Mouse) (Calculated value for the mixture).

**Chronic Effects on Humans:**
CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC [Potassium chromate]. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. [Potassium chromate]. Mutagenic for bacteria and/or yeast. [Potassium chromate]. Contains material which may cause damage to the following organs: kidneys, lungs, liver, upper respiratory tract, skin, eyes.

**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 cause adverse reproductive effects. May affect genetic material (mutagenic). May cause cancer (Potassium chromate)

**Special Remarks on other Toxic Effects on Humans:**
Acute Potential Health Effects: Skin: May cause skin irritation. Contact with broken skin may cause absorption, which may cause systemic poisoning affecting behavior/central nervous system, kidney and liver. Absorption may also affect the gastrointestinal tract and cause nausea and vomiting. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract and mucous membrane irritation. Symptoms may include sore throat, coughing, shortness of breath, labored breathing. It may cause pulmonary sensitization or allergic asthma. Higher exposures may cause pulmonary edema. Ingestion: It may cause gastroenteritis. Symptoms may include sore throat, nausea, vomiting, diarrhea, dizziness, intense thirst, muscle cramps, fever, liver damage, and kidney damage (acute renal failure, toxic nephritis, albuminuria, necrosis in the kidney), possible methemoglobin formation. Chronic Potential Health Effects: Although rare, systemic effects of chromates on the blood, liver, and kidneys from industrial exposure have been reported. Principal toxic effects of chromates from occupational point of view are exerted on skin, nasal mucosa, eye, larynx, and lungs. Signs and symptoms of chronic eye and skin contact may include lacrimation, conjunctivitis, eczematous contact dermatitis. Signs and symptoms of chronic inhalation may include perforation of the nasal septum, congestion, chronic rhinitis, polyps of the upper respiratory tract, inflammation of the lungs, emphysema, tracheitis, bronchitis, pharyngitis, adhesions of the diaphragm, inflammation of the larynx, respiratory irritations. Signs and symptoms of chronic ingestion are loss of appetite, nausea, vomiting, inflammation of the liver or even acute hepatitis with jaundice, leukocytosis, leukopenia, monocytosis, and eosinophilia.

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### 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 product itself and its products of degradation are not toxic.
### 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: Potassium chromate 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: Potassium chromate Connecticut hazardous material survey.: Potassium chromate Illinois chemical safety act: Potassium chromate New York release reporting list: Potassium chromate Pennsylvania RTK: Potassium chromate Massachusetts RTK: Potassium chromate Massachusetts spill list: Potassium chromate New Jersey: Potassium chromate New Jersey spill list: Potassium chromate Louisiana spill reporting: Potassium chromate TSCA 8(b) inventory: Water; Potassium chromate TSCA 6 final risk management: Potassium chromate TSCA 8(a) IUR: Potassium chromate TSCA 12(b) one time export: Potassium chromate SARA 313 toxic chemical notification and release reporting: Potassium chromate 1% CERCLA: Hazardous substances.: Potassium chromate: 10 lbs. (4.536 kg);


**Other Classifications:**

**WHMIS (Canada):** CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

**DSCL (EEC):**
R43- May cause sensitization by skin contact. R46- May cause heritable genetic damage. R49- May cause cancer by inhalation. S2- Keep 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:** b

**National Fire Protection Association (U.S.A.):**
- **Health:** 1
- **Flammability:** 0
- **Reactivity:** 0
- **Specific hazard:**

**Protective Equipment:**
Gloves. Lab coat. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

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<th>Section 16: Other Information</th>
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<td><strong>References:</strong> Not available.</td>
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<td><strong>Last Updated:</strong> 05/21/2013 12:00 PM</td>
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