



Fisher Science Education  
6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177  
Emergency Number: (800) 255-3924

## Material Safety Data Sheet

### Section 1 – Chemical Product and Company Identification

Catalog Numbers: S25862  
Product Identity: Potassium Chromate 0.1M

**Chemical Family:** Not Applicable  
**Synonyms:** Indicator for chloride determination  
**Recommended Use:** Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291  
Emergency Contact Number (24hr): Chemtel (800) 255-3924

**Issue Date:** 04/10/13  
**Revision Date:**

### Section 2 – Hazard Identification

#### **Emergency Overview**

Contains hexavalent chromium compound, a known carcinogen. May cause irritation to eyes and skin. Wash areas of contact with water. If ingested, dilute with water. Get medical attention.

**Appearance:** Clear, yellow liquid      **Odor:** Odorless

**Target Organs:** Gastrointestinal system, eyes, skin, respiratory system, liver, kidney, blood

#### **Potential Health Effects/ Routes of Exposure:**

**Eyes:** May cause slight irritation.

**Skin:** May cause slight irritation.

**Ingestion:** May cause gastrointestinal pain.

**Inhalation:** May cause irritation of the upper respiratory tract, coughing, shortness of breath.

**Chronic Effect / Carcinogenicity:** None (NTP, OSHA). IARC – Potassium Chromate is carcinogenic to humans.

**Aggravated Medical Conditions** No information available

These chemicals are considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

### Section 3 – Composition, Information on Ingredients

Potassium Chromate, CAS# 7789-00-6, <2% w/v  
Water, purified, CAS# 7732-18-5, >98% w/v

### Section 4 – First Aid

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

**Skin:** Flush with water for 15 minutes. Get medical assistance if irritation develops.

**Ingestion:** DO NOT induce vomiting. Dilute with water. Get medical assistance.

**Inhalation:** Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

**Notes to Physician:** No information available.

### Section 5 – Fire Fighting Measures

**Flash Point:** Not Applicable **Autoignition Temperature:** No information available.  
**Explosion Limits Upper:** Not Applicable **Lower:** Not Applicable  
**Extinguishing Media:** Use water, water spray, carbon dioxide, dry chemicals or appropriate foam. If using water, do not allow runoff to enter sewer.  
**Unsuitable Extinguishing Media:** No information available  
**Fire & Explosion Hazards:** Not considered to be a fire or explosion hazard.  
**Fire Fighting Instructions / Equipment:** Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.  
**Hazardous Combustion Products:** No information available  
**Sensitivity to mechanical impact** No information available.  
**Sensitivity to static discharge** No information available.  
**Specific Hazards Arising from the Chemical:** Thermal decomposition can lead to release of irritating gases and vapors  
**NFPA Rating:** (estimated) Health: 2; Flammable: 0; Reactivity: 0

## **Section 6 – Accidental Release Measures**

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

**Environmental Precautions** Should not be released into the environment.

**Methods for Containment and Clean Up** Soak up with inert absorbent material. Keep in suitable and closed containers for disposal. Do not allow run off into sewer. Always obey local regulations.

## **Section 7 – Handling and Storage**

**Handling:** Wash hands after handling. Avoid contact with skin and eyes. Do not mix with bases.

**Storage:** Keep Protect from freezing and physical damage.

## **Section 8 – Exposure Controls, Personal Protection**

Potassium Chromate, CAS# 7789-00-6, ACGIH TLV: 0.05 mg/m<sup>3</sup> OSHA PEL: NA

Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

**Engineering Measures/ General Hygiene:** Normal ventilation is adequate. Ensure eyewash and safety showers are available.

**Personal Protection Equipment: Skin Protection:** Chemical resistant gloves.

**Eye/Face Protection:** Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation is adequate

## **Section 9 – Physical and Chemical Properties**

**Appearance/Physical State:** Clear, yellow liquid

**Odor:** Odorless

**Boiling Point:** Approx 100C

**Melting Point:** Approx 0C

**Vapor Density:** 0.7

**Evaporation Rate:** > 1

**pH:** No Information Available

**Flammability:** No Information Available

**Solubility:** Soluble in water

**Relative Density:** No Information Available

**% Volatility:** No Information Available

**Specific Gravity:** Approx 1.03

**Vapor Pressure:** 14mm Hg

**Flash Point:** Not Applicable

**Coefficient of water/oil distribution:** Not Available

**Odor Threshold:** Not Available

**Decomposition Temperature:** No Information Available

**Partition Coefficient n-octanol/water:** Not available

**Molecular Weight:** Not available

## **Section 10 – Stability and Reactivity**

**Chemical Stability:** Stable under normal conditions of use and storage.

**Incompatible Materials:** Reducing agents, organic compounds.

**Conditions to Avoid:** None available.

**Hazardous Decomposition Products:** Fumes of Chromium trioxide.

**Hazardous Polymerization:** Does not occur

**Hazardous Reactions:** None under normal processing.

## **Section 11 – Toxicological Information**

**Routes of Exposure/Symptoms/Corrosiveness** – See Section 2

LD50 orl-rat: 180mg/kg (Potassium Chromate) LC50 inhalation-rat: NA

**Irritation:** No Information Available

**Toxicologically Synergistic:** No Information Available

### **Chronic Exposure**

**Carcinogenicity** Potassium Chromate is a known carcinogen in the state of California.

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Reproductive Effects** No information available.

**Developmental Effects (Immediate/Delayed)** No information available.

**Teratogenicity** No information available.

**Other Adverse Effects** No information available.

**Endocrine Disruptor Information** No information available

## **Section 12 – Ecological Information**

**Ecotoxicity:** No information available.

**Persistence and Degradability:** No Information Available

**Mobility:** No Information Available

**Bioaccumulation/ Accumulation:** No Information Available

## **Section 13 – Disposal Considerations**

**Waste Disposal/Waste Disposal of Packaging:** Do not flush to sewer. Absorb with suitable material and containerize for disposal. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## **Section 14 – Transport Information**

**DOT - Not Regulated**

## **Section 15 – Regulatory Information (not meant to be all inclusive)**

**OSHA Status:** These chemicals are not considered hazardous by OSHA.

**Canada DSL:** CAS# 7732-18-5 and 7789-00-6 are listed on Canada's DSL list.

**TSCA:** The components of this solution are listed on the TSCA Inventory

**SARA Title III Section 313:** Not Applicable

**RCRA Status:** Not Applicable

**CERCLA Reportable Quantity:** Not applicable

**WHMIS:** Non-controlled

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

## **Section 16 – Additional Information**

**Disclaimer:** The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his/her own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.