



LTS Research Laboratories, Inc.  
Safety Data Sheet  
Potassium Chromate

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1. Product and Company Identification

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Trade Name: Potassium Chromate  
Chemical Formula:  $K_2CrO_4$   
Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.  
Street: 37 Ramland Road  
City: Orangeburg  
State: New York  
Zip Code: 10962  
Country: USA  
Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)  
+1-703-527-3887 (International)

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2. Hazards Identification

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Signal Word:

Danger



Hazard Statements:

H301: Toxic if swallowed.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335: May cause respiratory irritation.  
H340: May cause genetic defects.  
H350: May cause cancer.  
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P202: Do not handle until all safety precautions have been read and understood.  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264: Wash skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310+P330: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.  
P302+P352: IF ON SKIN: Wash with soap and water.  
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Continue rinsing.  
P308+P313: IF exposed or concerned: Get medical advice/attention.  
P333+P313: If skin irritation or a rash occurs: Get medical advice/attention

P337+P313: If eye irritation persists get medical advice/attention.  
P362: Take off contaminated clothing and wash before reuse.  
P391: Collect spillage.  
P403+P233: Store in a well ventilated place. Keep container tightly closed.  
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

HMIS Health Ratings (0-4):

Health:	2
Flammability:	0
Physical:	0

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### 3. Composition

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Chemical Family: Inorganic  
Additional Names:

Potassium Chromate (K<sub>2</sub>CrO<sub>4</sub>):

Percentage:	100 wt%
CAS #:	7789-00-6
EC #:	232-140-05

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### 4. First Aid Procedures

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General Treatment: Seek medical attention if symptoms persist.  
Special Treatment: None  
Important Symptoms: May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek immediate medical attention.  
Ingestion: Give one to two glasses of water and do not induce vomiting. Seek immediate medical attention.  
Skin: Wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.  
Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.

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### 5. Firefighting Measures

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Flammability: Non-flammable, except as powder  
Extinguishing Media: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.  
Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.

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## 6. Accidental Release Measures

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If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.

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## 7. Handling and Storage

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Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.

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## 8. Exposure Controls and Personal Protection

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Permissible Exposure Limits:	0.1 mg/m <sup>3</sup> as K <sub>2</sub> CrO <sub>4</sub> , long-term value
Threshold Limit Value:	0.0002 mg/m <sup>3</sup> as K <sub>2</sub> CrO <sub>4</sub> , long-term value
Special Equipment:	None
Respiratory Protection:	Use a recommended dust respirator or mask. Only use equipment tested and approved under appropriate government standards
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.

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## 9. Physical and Chemical Characteristics

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Color	Yellow
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	1000 °C
Melting Point:	975 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	2.73 g/cc
Molecular weight:	194.19 g/mol

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## 10. Reactivity

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Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	None
Hazardous Decomposition Products:	Metal oxide fume

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## 11. Toxicological Information

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### Potential Health Effects:

Eyes:	Causes serious irritation
Skin:	May cause allergic skin reaction
Ingestion:	Causes toxicity
Inhalation:	Causes respiratory irritation
Chronic:	N/A

### Signs & Symptoms:

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

### Aggravated Medical Conditions:

N/A

### Median Lethal Dose:

180 mg/kg for rat by mouth

### Carcinogen:

IARC-1: Carcinogenic to humans: sufficient evidence of carcinogenicity.

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## 12. Ecological Information

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Aquatic Toxicity:	High
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	LC50- 40 mg/L 96h Pimephales promelas EC50-0.015 mg/L 48h Water Flea

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## 13. Disposal Considerations

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Dispose of in accordance with local, state, national, and international regulations.

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## 14. Transportation Data

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Hazardous: Hazardous for transportation



Hazard Class:	6.1 Poisonous Material
Packing Group:	III
UN Number:	UN3288
Proper Shipping Name:	Toxic solid, inorganic, N.O.S (Potassium Chromate)

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## 15. Regulatory Information

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Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	Yes

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## 16. Other Information

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This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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