



Material Safety Data Sheet

Potassium Chromate 0.063% to 5%

Section 1 - Chemical Product and Company Identification

MSDS Name:

Potassium Chromate 0.063% to 5%

Catalog Numbers:

LC18840, LC18850

Synonyms:

None

Company Identification:

LabChem Inc
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7789-00-6	Potassium chromate	0.063-5

Section 3 - Hazards Identification

Emergency Overview

Appearance: Clear, pale yellow to yellow-orange solution

Warning! May cause eye, skin, and respiratory tract irritation. May cause allergic skin reaction.

May be harmful if swallowed, inhaled, or absorbed through the skin. May cause cancer.

Target Organs: Kidneys, liver, skin.

Potential Health Effects

Eye:

May cause eye irritation, conjunctivitis, ulceration, and corneal abnormalities.

Skin:

May cause skin irritation. May cause skin sensitization.

Ingestion:

May cause irritation of the gastrointestinal tract. May cause liver and kidney damage.

Inhalation:

May cause respiratory tract irritation. May cause asthmatic attacks due to allergic sensitization of the respiratory tract.



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Chronic:

Prolonged or repeated inhalation may lead to asthma, perforation of the nasal septum, and chronic bronchitis. May cause liver and kidney damage. May cause cancer in humans.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid at once. Do NOT allow victim to rub or keep eyes closed.

Skin:

Get medical aid at once. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:

Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid at once.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Runoff from fire control or dilution water may cause pollution.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

Not applicable.

Flash Point:

Not applicable.

NFPA Rating:

Health- 2, Flammability- 0, Instability- 0.

Explosion Limits:

Lower: n/a Upper: n/a

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.



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Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in suitable containers labeled for disposal.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Avoid ingestion or inhalation.

Storage:

Store capped at room temperature. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Water	none listed	none listed	none listed
Potassium chromate	0.05 mg/m ³ TWA (as Cr) (listed as Chromium (VI) compounds- water soluble)	0.001 mg/m ³ TWA (as Cr) (listed under Chromates). 15 mg/m ³ IDLH (as Cr (VI)) (listed under Chromates).	5 µg/m ³ TWA (listed under Chromium (VI) compounds). 0.1 mg/m ³ Ceiling (as CrO ₃ , applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect) (listed under Chromates). 2.5 µg/m ³ Action Level (as Cr); 5 µg/m ³ TWA (as Cr, Cancer hazard - See 29 CFR 1910.1026) (listed under Chromium (VI) compounds).

OSHA Vacated PELs:

None.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate gloves to prevent skin exposure.



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Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:	Clear liquid
Color:	Pale yellow to yellow-orange
Odor:	Odorless
pH:	8-10
Vapor Pressure:	Not available
Vapor Density:	0.7
Evaporation Rate:	>1 (ether = 1)
Viscosity:	Not available
Boiling Point:	100°C
Freezing/Melting Point:	0°C
Decomposition Temperature:	Not available
Solubility in water:	Soluble
Specific Gravity/Density:	1.00-1.03
Molecular Formula:	Not applicable
Molecular Weight:	Not applicable

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:

Acids.

Hazardous Decomposition Products:

Oxides of potassium, oxides of chromium.

Hazardous Polymerization:

Has not been reported.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 7789-00-6: GB2940000.

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 7789-00-6:

Oral, mouse: LD50 = 180 mg/kg.



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Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7789-00-6:

- **ACGIH:** A1 - Confirmed Human Carcinogen (listed as 'Chromium (VI) compounds- water soluble').
- **California:** carcinogen, initial date 2/27/87 (listed as Chromium (VI) compounds).
- **NTP:** Known carcinogen (listed as Chromium (VI) compounds).
- **IARC:** Group 1 carcinogen

Epidemiology:

Certain hexavalent chromium compounds have been demonstrated to be carcinogenic on the basis of epidemiological investigations on workers and experimental studies in animals. There is an increased incidence of lung cancer in industrial workers exposed to chromium (VI) compounds. Please refer to IARC volume 23 for a more detailed discussion.

Teratogenicity:

TDLo (Intraperitoneal, mouse)=30 mg/kg

Reproductive:

No information found

Mutagenicity:

Mutation in microorganisms (Salmonella typhimurium)= 35 µg/plate; Mutation in microorganisms (Salmonella typhimurium)= 10 µg/plate

Neurotoxicity:

No information found

Section 12 - Ecological Information

Ecotoxicity: LC50 *Physa heterostropha* (snail) 31,600 µg/l as chromium; water hardness as 171 mg/l as calcium carbonate; static unmeasured method. LC50 *Daphnia magna* (Cladoceran) 137, 66.7 and 15.3 µg/l as chromium; water hardnesses of 212, 188 and 50 as calcium carbonate, respectively, and with pH values of 8.2 to 8.4, 7.5 to 7.6, and 7.5, respectively; static measured method.

Environmental: Aquatic Fate: Cr (VI) exists in solution as hydrochromate, chromate, and dichromate ionic species. The proportion of each ion in solution is dependent on pH. In strongly basic and neutral pHs, the chromate form predominates. Chromium is present usually as Cr (III) in the soil and is characterized by its lack of mobility, except in cases where Cr (VI) is involved. Chromium (VI) of natural origin is rarely found.

Physical: As the pH is lowered, the hydrochromate concentration increases. At very low pHs, the dichromate species predominates. In the pH ranges encountered in natural water, the predominant forms are hydrochromate ions (63.6%) at pH 6.0 to 6.2 and chromate ion (95.7%) at pH 7.8 to 8.5. The oxidizing ability of Cr (VI) in aqueous solution is pH dependent.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.



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Section 14 - Transport Information

US DOT

Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 7732-18-5 is listed on the TSCA Inventory.
CAS# 7789-00-6 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

CAS# 7789-00-6: final RQ = 10 pounds (4.54 kg)

CERCLA/SARA Section 313:

This material contains Potassium chromate (listed as Chromium (VI) compounds), 0.063-5.5%, (CAS# 7789-00-6), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

OSHA - Highly Hazardous:

None of the chemicals in this product are considered highly hazardous by OSHA.

US State

State Right to Know:

Potassium chromate can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Massachusetts, Minnesota (listed as Chromium (VI) compounds – water-soluble).

California Regulations:

WARNING: This product contains Potassium chromate, listed as 'Chromium (VI) compounds', a chemical known to the state of California to cause cancer.

European/International Regulations

Canadian DSL/NDSL:

CAS# 7732-18-5 is listed on Canada's DSL List.
CAS# 7789-00-6 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.
CAS# 7789-00-6 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: April 5, 1998
Revision Date: September 29, 2009



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