

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Potassium dichromate
CAS #: 7778.50-9
FORMULA: K₂Cr₂O₇
SYNONYM: Bichromate of potash, Potassium bichromate

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7778.50-9	100	0.05mg/m ³ (as Cr(IV)-soluble)	1mg/10m ³ (ceiling limit)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Irritating to skin, eyes and mucous membranes of the nose and mouth. Cancer hazard.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation, skin

EYE CONTACT: Irritating to the eyes.

SKIN CONTACT: Irritating to the skin.

INHALATION: Causes inflammation and ulceration of the respiratory tract.

INGESTION: Ingestion may lead to dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, shock, and convulsions.

CHRONIC HEALTH EFFECTS: Cancer hazard. May cause dermatitis, ulceration of the respiratory and gastrointestinal tract, acute hepatitis, erosion and discoloration of the teeth. Possible reproductive hazard.

ACUTE HEALTH EFFECTS: Irritating and toxic to skin, eyes and respiratory tract and when ingested. Contact with breaks in the skin can cause ulceration.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if

conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: none

EXPLOSION LIMITS: none

EXTINGUISHING MEDIUM: water, carbon dioxide, foam or dry powder

SPECIAL FIREFIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: : If involved in a fire this material may emit toxic fumes of chromium oxides.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Strong oxidizer. May accelerate combustion of organics.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Small spills can be mixed with vermiculite or sodium carbonate and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container. Keep away from heat, moisture, and direct sunlight.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: orange xtl

MOLECULAR WEIGHT: 294.19

MELTING POINT (DEG. C.): none

BOILING POINT: 500^o dec.

VAPOR PRESSURE: not applicable

SPECIFIC GRAVITY: 2.676

SOLUBILITY IN WATER: soluble

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization
CONDITIONS TO AVOID: Contact with organics. Use good housekeeping practice to avoid accumulation of dust in work area.
INCOMPATIBILITY: Organic matter, reducing agents, sulfur, phosphorus and active metals.
DECOMPOSITION PRODUCTS: none

SECTION 11 Toxicological Information

RTECS DATA: Oral (human-child); LDLo: 26 mg/kg. Oral (rat); LD50: 25 mg/kg. Intraperitoneal (rat); LD50: 28 mg/kg. Oral (mouse); LD50: 190 mg/kg. Intraperitoneal (mouse); LD50: 37 mg/kg. Subcutaneous (mouse); LDLo: 100 mg/kg. Oral (dog); LDLo: 2829 mg/kg. Subcutaneous (monkey); LDLo: 40 mg/kg. Administration onto the skin (rabbit); LD50: 14 mg/kg. Oral (rat); TDLo: 56680 ug/kg/20D-1. Intraperitoneal (rat); TDLo: 22500 ug/kg/12W-1. Subcut (rbt) LDLo: 10 mg/kg. Human Lymphocyte; Micronucleus test: 30 ug/L. Human Fibroblast; Morphological transformation: 200 nmol/L. Human lung; DNA damage: 10 umol/L. Human Fibroblast; DNA inhibition: 100 umol/L.

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: Keep away from waterways and ground water.

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Toxic solids, oxidizing, n.o.s., Class 6.1, UN 3086, PG I

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Listed in SARA, Title 313

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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