

Potassium Dichromate Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Potassium Dichromate

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
Chemtrec Emergency Phone Number: (800) 424-10152

Signal Word
DANGER

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Oxidizing gases (Category 1). May cause or intensify fire; oxidizer (H270). Do not spray on an open flame or other ignition source (P211).
Hazard class: Acute toxicity, oral (Category 3). Toxic if swallowed (H301). Do not eat, drink or smoke when using this product (P270).
Hazard class: Acute toxicity, dermal (Category 4). Harmful in contact with skin (H312).
Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe dust or fumes (P260).
Hazard class: Acute toxicity, inhalation (Category 1). Fatal if inhaled (H330).
Hazard class: Germ cell mutagenicity (Category 1). May cause genetic defects (H340). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).
Hazard class: Carcinogenicity (Category 1). May cause cancer (H350).
Hazard class: Reproductive toxicity (Category 1). May damage fertility or the unborn child (H360).
Hazard class: Specific target organ toxicity, repeated exposure (Category 1). Causes damage to organs (H372).

Pictograms



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Potassium dichromate	7778-50-9	K ₂ Cr ₂ O ₇	294.22	
Synonyms: Potassium bichromate				

SECTION 4 — FIRST AID MEASURES

If exposed or concerned: Get medical advice or attention IMMEDIATELY (P308+P313).
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
If on skin or hair: Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363).
If swallowed: Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.
Strong oxidizer. Dangerous fire risk when in contact with organic materials.
When heated to decomposition, may emit toxic fumes.
In case of fire: Stop leak if safe to do so (P370+P376). Use a tri-class dry chemical fire extinguisher.

NFPA Code
None established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #8. Store with borates, chromates, manganates and permanganates.
Store in a cool dry place. Store in a locked poisons cabinet.
Keep and store away from clothing and combustible materials (P220). Use only in a hood or in a well-ventilated area.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling (P264). Use only in a hood or in a well-ventilated area. Wear respiratory protection (P284).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Orange crystalline powder. Odorless.
Soluble: Water. Insoluble in alcohol.

Melting point: 396 °C
Specific gravity: 2.676

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with reducers and organic materials.
Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Poison, corrosive, sensitizer
Chronic effects: Known carcinogen, mutagen
Target organs: Lungs, kidneys

ORL-MUS LD₅₀: 190 mg/kg
IHL-RAT LC₅₀: N.A.
SKN-RBT LD₅₀: N.A.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.
Flinn Suggested Disposal Method #12a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Oxidizing solid, N.O.S.; Hazard class: 5.1, Oxidizer; UN number: UN1479

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-906-6), RCRA code D001, D007.

SECTION 16 — OTHER INFORMATION

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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