

Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Sodium Chromate Tetrahydrate

Signal Word
DANGER

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-10310

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral, dermal and inhalation (Category 3). Fatal if swallowed, inhaled or in contact with skin (H300+H310+H330). Do not eat or drink when using this product (P270). Avoid breathing dust or fumes (P261). Do not get in eyes, on skin, or on clothing (P262).



Hazard class: Sensitization, skin and respiratory tract (Category 1). May cause an allergic skin reaction and allergy or asthma symptoms or breathing difficulties if inhaled (H317+H334).



Hazard class: Carcinogenicity, Germ cell mutagenicity, Reproductive toxicity (Category 1). May cause cancer (H350). May cause genetic defects (H340). May damage fertility or the unborn child (H360). 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). Sodium chromate tetrahydrate is a known human carcinogen (IARC-1).

Hazard class: Specific target organ toxicity, repeated exposure (Category 1). Causes damage to organs (H372).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Sodium chromate tetrahydrate	10034-82-9	Na ₂ CrO ₄ •4H ₂ O	234.03	
Synonyms: Chromic acid, disodium salt				

SECTION 4 — FIRST AID MEASURES

If exposed or concerned: Get medical advice or attention (P308+P313).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). Immediately call a POISON CENTER or physician (P310). **If experiencing respiratory symptoms:** Call a POISON CENTER or physician (P342+P311). **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:** Wash with plenty of water (P302+P352). **If skin irritation or rash occurs:** Get medical advice or attention (P333+P313). Wash contaminated clothing before reuse (P363).

If swallowed: Rinse mouth. Immediately call a POISON CENTER or physician (P301+P310+P330).

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

NFPA Code

Strong oxidizer, fire and explosion hazard when in contact with combustible materials. When heated to decomposition, may emit toxic fumes.

None established

In case of fire: Use a tri-class dry chemical fire extinguisher.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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. Efflorescent. Keep container tightly closed within a Flinn Chem-Saf™ bag. Store in a locked poisons cabinet. Use only in a hood or well-ventilated area (P271).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Contaminated work clothing should not be allowed out of the workplace (P272). Use only in a hood or well-ventilated area (P271). In case of inadequate ventilation, wear respiratory protection (P285).

Exposure guidelines: (inhalable) PEL 0.005 mg/m³ (OSHA); TLV 0.05 mg/m³ (ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Yellow, translucent crystals. Efflorescent. Odorless. Specific gravity: 2.723
Soluble: Water. Slightly in alcohol.

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with acids, bases, reducers, combustible materials, organic materials, metals, alkalies, alcohols, acetone, hydrazine, hydroxylamine salts, mercury cyanide, calcium hydroxide, ethylene glycol, oils, grease, oxidizing agents, carbides, sulfur, aluminum, boron, silicon, acetic anhydride, amines, paper, and wood. Shelf life: Fair. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Somnolence, skin and eye irritation, ORL-RAT LD₅₀: N.A.
severe damage to mucous membranes, readily absorbed IHL-RAT LC₅₀: N.A.
through the skin. SKN-RBT LD₅₀: 101 mg/kg

Chronic effects: Mutagen, carcinogen (IARC-1, NTP known).

Target organs: Lungs, kidneys.

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: Not regulated. Hazard class: N/A. UN number: N/A.

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-889-5), 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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