



# Chromium Nitrate Safety Data Sheet (SDS)

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Chromium Nitrate

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

Chemtrec Emergency Phone Number: (800) 424-9618

#### Signal Word

**DANGER**

## SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Oxidizing solids (Category 2). May intensify fire; oxidizer (H272). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 5). May be harmful if swallowed (H303).

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).

Pictograms



## SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Component Name                | CAS Number | Formula                                              | Formula Weight | Concentration |
|-------------------------------|------------|------------------------------------------------------|----------------|---------------|
| Chromium nitrate, nonahydrate | 2150954    | $\text{Cr}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$ | 400.18         |               |

Synonyms: Chromium(III) nitrate; Chromic nitrate

## SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

**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 (P305+P351+P338). **If eye irritation persists**

**eyes:** Get medical advice or attention (P337+P313).

**If on skin:** Wash with plenty of water (P302+P352). **If skin irritation occurs:** Get medical advice or attention (P332+P313).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

## SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

Strong oxidizing agent; avoid contact with organic materials and reducing agents.

When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher. Take any precautions to avoid mixing with combustibles (P221+P370+P378).

#### NFPA Code

None established

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and water. Sweep up the spill, place in a 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 #3. Store with amides, nitrates, nitrites and azides.

Use only in a hood or well-ventilated area (P271). Keep and store away from clothing and combustible materials (P220). Take any precautions to avoid mixing with combustibles (P221).

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

Exposure guidelines: PEL 0.5 mg/m<sup>3</sup> (OSHA); TLV 0.5 mg/m<sup>3</sup> (ACGIH)

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Metallic gray/black monoclinic crystals. Odorless.

Soluble: Water and alcohol

Boiling point: 100 °C (decomposes)

Melting point: 60 °C

Specific gravity: 1.85

#### SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with heat, organic materials, reducing agents, and aluminum or magnesium metals.

Shelf life: Good, if stored properly.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Harmful dust, irritant.

ORL-RAT LD<sub>50</sub>: 3250 mg/kg

Chronic effects: N.A.

IHL-RAT LC<sub>50</sub>: N.A.

Target organs: N.A.

SKN-RBT LD<sub>50</sub>: 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 #27f is one option.

#### SECTION 14 — TRANSPORT INFORMATION

Shipping name: Chromium Nitrate. Hazard class: 5.1 Oxidizer. UN number: UN2720.

#### SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (236-921-1), 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.**

**Revision Date:** March 25, 2014