

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 243.00

Revision Date: March 15, 2001

Section 1 — Chemical Product and Company Identification

Chromium Trioxide

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

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Chromium Trioxide

Synonyms: chromium (VI) oxide, chromic acid, chromic anhydride

CAS#: 1333-82-0

Section 3 — Hazards Identification

Dark purplish-red flakes, crystals or powder. Odorless.

Corrosive to all body tissue, highly toxic, powerful oxidizing agent: Avoid contact with reducing agents and organic materials. Avoid all body tissue contact. Known carcinogen.

FLINN AT-A-GLANCE

Health-3
Flammability-0
Reactivity-3
Exposure-3
Storage-2

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give no more than 1-2 cups of water for dilution. Do not induce vomiting. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non flammable solid.

Strong oxidizing agent. Explosion and fire hazard on contact with organic material. When heated to decomposition, emits toxic fumes.

NFPA CODE

None Established

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

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 #4. Store with hydroxides, oxides, silicates and carbonates.

Store in a cool dry place. Deliquescent, store in Flinn Chem-Saf Bag and then inside a Flinn Saf-Stor Can.

Use and dispense in a hood.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA 0.001 mg/m³ (NIOSH)

Section 9 — Physical and Chemical Properties

Dark purplish-red flakes, crystals or powder. Odorless.
Solubility: Water soluble.
Formula: CrO₃
Formula Weight: 100.1

Specific Gravity: 2.7
Melting Point: 197 C

Section 10 — Stability and Reactivity

Strong oxidizing agent, avoid contact with organic materials, heat, and phosphorus. Decomposes at 250 C.
Shelf life: Poor; deliquescent.

Section 11 — Toxicological Information

Acute effects: Highly toxic, corrosive
Chronic effects: Carcinogen, mutagen
Target organs: N.A.

ORL-RAT LD50: 80 mg/kg
IHL-RAT LC50: N.A.
SKN-RBT LD50: N.A.

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

Section 12 — Ecological Information

Data not yet available.

Section 13 — Disposal Considerations

Please consult with state and local regulations.
Flinn Suggested Disposal Method #12a is one option.

Section 14 — Transport Information

Shipping Name: Chromic acid, solid
Hazard Class: 5.1, Oxidizer, corrosive
UN Number: NA1463

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (215-607-8), RCRA code D001, D007.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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Flinn Chemical Packaging Prevents Accidents

flinn@flinnsci.com www.flinnsci.com
P.O. Box 219 Batavia IL 60510
(800) 452-1261 Fax (866) 452-1436