

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 238.00

Revision Date: October 13, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chromium Chloride

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 chloride hydrate

Synonym: chromium (III) chloride, chromic chloride

CAS#: 10060-12-5

SECTION 3 — HAZARDS IDENTIFICATION

Green, black or violet crystals. Odorless.

Severe irritant to body tissues. Slightly toxic by ingestion, inhalation, and skin absorption. Avoid breathing dust.

FLINN AT-A-GLANCE

Health-1

Flammability-0

Reactivity-2

Exposure-1

Storage-1

0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician and 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 or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solid.

When heated to decomposition, may emit chlorine and chromium fumes.

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

NFPA CODE

None

established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Avoid creating dust. Gather up material in a pile (do not sweep). Place in a suitable 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 #2. Store with acetates, halides, sulfates, sulfites, thiosulfates, and phosphates. Use and dispense in a hood. Store in a cool, dry place. Deliquescent; store in Flinn Chem-Saf Bag.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and a 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: PEL 0.5 mg/m³ (as Cr) (OSHA)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Green, black, or violet crystals.

Solubility: Soluble in water or alcohol.

Formula: $\text{CrCl}_3 \cdot 6\text{H}_2\text{O}$

Formula weight: 266.48

Melting point: 53 °C

pH (solution): ~2

Specific gravity: 1.76

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with moisture and oxidizing agents. Toxic fumes are emitted on decomposition.

Shelf life: Indefinite, if kept dry.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Highly toxic, corrosive.

Chronic effects: N.A.

Target organs: N.A.

ORL-RAT LD_{50} : 1790 mg/kg (as Cr)IHL-RAT LC_{50} : N.A.SKN-RBT LD_{50} : 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 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: Not regulated

Hazard class: N/A

UN number: N/A

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (233-038-3), RCRA code D010.

SECTION 16 — OTHER INFORMATION

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