

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 723.00

Revision Date: December 7, 2011

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Sodium Chromate

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

Sodium chromate

Synonym: Chromic acid, disodium salt

CAS#: 10034-82-9 (tetrahydrate), 7775-11-3 (anhydrous)

### SECTION 3 — HAZARDS IDENTIFICATION

Yellow, translucent crystals; efflorescent. Odorless.

Known human carcinogen as a dust (IARC-1).

Highly toxic by ingestion, inhalation, and skin absorption. Severely irritating to body tissues.

Sensitizer. Avoid all body tissue contact. Strong oxidizer, dangerous fire risk when heated in contact with organic materials.

#### FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-2

Exposure-3

Storage-3

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 solid.

Strong oxidizer, fire and explosion hazard when in contact with combustible materials. When heated to decomposition, emits toxic fumes of  $\text{Na}_2\text{O}$ .

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

#### 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 Flinn Chem-Saf Bag in a locked poisons cabinet. 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  $0.05 \text{ mg/m}^3$  (as Cr) (ACGIH)

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Yellow, translucent, odorless crystals; efflorescent.

Solubility: Soluble in water; slightly in alcohol.

Formula:  $\text{Na}_2\text{CrO}_4 \cdot 4\text{H}_2\text{O}$ 

Formula weight: 234.06

Melting point: 794 °C (anhydrous)

Specific gravity: 1.483 (tetrahydrate)

Specific gravity: 2.72 (anhydrous)

**SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with acids, bases, reducers, combustible materials, organic materials, metals, alkalis, 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.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Irritant

Chronic effects: Mutagen, carcinogen

Target organs: Lungs, kidneys

ORL-RAT LD<sub>50</sub>: 52 mg/kgIHL-RAT LC<sub>50</sub>: 1600 mg/kgSKN-RBT LD<sub>50</sub>: 1600 mg/kg

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 #12a 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 (231-889-5), RCRA code D001, D007.

**SECTION 16 — OTHER INFORMATION**

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