



SDS #: 729

Revision Date: March 21, 2014

## Sodium Dichromate Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Sodium Dichromate

**Signal Word**  
**DANGER**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261  
Chemtrec Emergency Phone Number: (800) 424-10318

Pictograms

### 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 and inhalation (Category 1). Fatal if swallowed or inhaled (H300+H330). Do not eat, drink or smoke when using this product (P270).

Hazard class: Acute toxicity, dermal (Category 4). Harmful in contact with skin (H312).

Hazard class: Skin corrosion and irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe dust or fumes (P260).

Hazard class: Sensitization, respiratory (Category 1). May cause allergy or asthma symptoms or breathing difficulties if inhaled (H334).

Hazard class: Carcinogenicity, Reproductive toxicity, Germ cell mutagenicity (Category 1). May cause cancer (H350). May damage fertility or the unborn child (H360). May cause genetic defects (H340).

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).

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 dichromate dihydrate	7789-12-0	Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> •2H <sub>2</sub> O	297.999	
Synonyms: Sodium bichromate; Dichromic acid, disodium salt, dihydrate				

### SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). **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 (P305+P351+P338). **If on skin or hair:** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). **If swallowed:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or physician (P301+P330+P330+P331).

---

**SECTION 5 — FIRE FIGHTING MEASURES**

---

Nonflammable, noncombustible solid.

**NFPA Code**

Strong oxidizer. Fire and explosion risk 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. Take any precautions to avoid mixing with combustibles (P221+P370+P378).

---

**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

---

Do not cause solid to become airborne. 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 poison cabinet. Keep and store away from clothing and combustible materials (P220). Take any precautions to avoid mixing with combustibles (P221). Deliquescent. Store in a cool, dry place within a Flinn Chem-Saf™ bag. 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). Use only in a hood or well-ventilated area (P271). In case of inadequate ventilation, wear respiratory protection (P285).

---

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

---

Red or red-orange crystals. Odorless.

Melting point: 85 °C (decomposes)

Soluble: Water. Insoluble in alcohol.

Specific gravity: 2.35

---

**SECTION 10 — STABILITY AND REACTIVITY**

---

Avoid contact with strong reducers, and alcohols.

Shelf life: Fair to poor, deliquescent. See Section 7 for further information.

---

**SECTION 11 — TOXICOLOGICAL INFORMATION**

---

Acute effects: Poison, skin, eye, and respiratory tract burns and irritation. Toxic if ingested.

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

IHL-RAT LC<sub>50</sub>: 124 mg/m<sup>3</sup>

Chronic effects: Carcinogen (IARC-1), mutagen, ulceration, liver and kidney injury may occur.

SKN-GPig LDL<sub>0</sub>: 335 mg/kg

Target organs: Mucous membranes, liver, 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: Oxidizing Solid, N.O.S. Hazard class: 5.1, Oxidizer. UN number: N/A

---

**SECTION 15 — REGULATORY INFORMATION**

---

TSCA-listed, EINECS-listed (234-190-3), RCRA code D001, D007.

---

**SECTION 16 — OTHER INFORMATION**

---

This Safety Data Sheet (SDS) 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. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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 21, 2014

---