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### Section 1 — Chemical Product and Company Identification

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## Ammonium Dichromate

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

CHEMTREC Emergency Phone Number: (800) 424-9300

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### Section 2 — Composition, Information on Ingredients

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Ammonium Dichromate

Synonym: ammonium bichromate

CAS#: 7789-09-5

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### Section 3 — Hazards Identification

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Orange odorless crystals.

Strong oxidizing agent and dangerous fire risk if mixed with organic material.

Ingestion can be fatal. Inhalation causes severe irritation. Avoid inhaling dust.

Irritating to body tissues. Avoid all body tissue contact. A known carcinogen.

#### FLINN AT-A-GLANCE

Health-3

Flammability-1

Reactivity-3

Exposure-3

Storage-0

0 is low hazard, 3 is high hazard

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### Section 4 — First Aid Measures

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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: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. Call a physician or poison control at once.

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### Section 5 — Fire Fighting Measures

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Strong oxidizer under fire conditions. Dangerous fire risk.

Thermal decomposition of ammonium dichromate is initiated by local heating to 190 C, flame and sparks spread rapidly through the mass and if confined, it may become explosive.

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

#### NFPA CODE

H-2

F-1

R-1

OX

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### Section 6 — Accidental Release Measures

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Restrict unprotected personnel from area. Ventilate 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.

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### Section 7 — Handling and Storage

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Flinn Suggested Chemical Storage Pattern: Inorganic #8. Store with borates, chromates, manganates and permanganates.

Use and dispense in a hood.

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### Section 8 — Exposure Controls, Personal Protection

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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 Cr/m3 (ACGIH)

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

Ammonium Dichromate

MSDS #: 56.00

Revision Date: February 24, 2003

### Section 9 — Physical and Chemical Properties

Orange crystals.  
Solubility: Water soluble (30%).  
Formula:  $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$   
Formula Weight: 252.06

Specific Gravity: 2.15  
Melting Point: 170 C (dec.)

### Section 10 — Stability and Reactivity

Strong oxidizer. Avoid contact with organic or easily oxidized substances. Avoid sources of heat. Avoid reducing agents, organic substances and oxidizing agents.  
Shelf life: Fair to poor.

### Section 11 — Toxicological Information

Acute effects: Poison, irritant, sensitizer, stomach pains, vomiting and diarrhea.      ORL-RAT LD50: N.A.  
Chronic effects: Carcinogen; possible mutagen              IHL-RAT LC50: N.A.  
Target organs: Lungs, kidneys                                      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: Ammonium Dichromate  
Hazard Class: 5.1, Oxidizer  
UN Number: UN1439

N/A = Not applicable

### Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (232-143-1), 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.

**FLINN SCIENTIFIC INC.**

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