

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 839.10

Revision Date: March 12, 2001

### Section 1 — Chemical Product and Company Identification

#### Uranyl Nitrate

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

Uranyl Nitrate

Synonym: uranium oxynitrate

CAS#: 10102-06-4

### Section 3 — Hazards Identification

Yellow rhombic crystals. Odorless.

This material is only slightly radioactive (less than 1.1 microcuries per gram), while this material is not regulated because of the package size, handle with care.

Toxic by ingestion and inhalation. Corrosive to body tissues. Avoid all body tissue contact.

Strong oxidizer.

#### FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-3

Exposure-3

Storage-0

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: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. After vomiting, give mixture of 2 Tbs. of activated charcoal mixed with one cup of water. Call a physician or poison control at once.

### Section 5 — Fire Fighting Measures

Non flammable solid.

When heated to decomposition, emits toxic fumes of NO<sub>x</sub> and uranium.

Strong oxidizer. Fire and explosion risk when in contact with combustible materials.

**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

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 #3. Store with amides, nitrates and nitrites.

### 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 50 mg/m<sup>3</sup> (OSHA)

### Section 9 — Physical and Chemical Properties

Yellow rhombic crystals. Odorless.  
Solubility: Water and alcohol.  
Formula:  $\text{UO}_2(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$   
Formula Weight: 502.13

Specific Gravity: 2.807  
Melting Point: 60.2 C  
Boiling Point: 118 C

### Section 10 — Stability and Reactivity

Avoid contact with strong reducing agents and combustible materials.  
Shelf Life: Indefinite.

### Section 11 — Toxicological Information

Acute effects: Poison, corrosive  
Chronic effects: N.A.  
Target organs: Kidney, skin

ORL-DOG LDLO: 12 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 #26a is one option.

### Section 14 — Transport Information

Shipping Name: Uranyl Nitrate, solid  
Hazard Class: 7, Radioactive, Oxidizer  
UN Number: UN2981

N/A = Not applicable

### Section 15 — Regulatory Information

TSCA-listed.

### 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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