

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 59.00

Revision Date: March 14, 2001

---

### Section 1 — Chemical Product and Company Identification

---

#### Ammonium Metavanadate

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

---

Ammonium Metavanadate

Synonym: Ammonium Vanadate

CAS#: 7803-55-6

---

### Section 3 — Hazards Identification

---

Pale-yellow crystalline powder.

Highly toxic by ingestion, severe irritant to eyes and skin. Avoid all body tissue contact.

#### FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-0

Exposure-1

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: Give large quantities 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 NH<sub>3</sub> and NO<sub>x</sub>.

**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. Remove all ignition sources and water. 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 #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates.

Deliquescent, store in Flinn Chem-Saf bag. 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 exhaust ventilation to keep airborne concentrations low.

### Section 9 — Physical and Chemical Properties

Pale-yellow crystalline powder.

Solubility: Less than 1% (0.7) water soluble.

Formula: NH<sub>4</sub>VO<sub>3</sub>

Formula Weight: 116.99

Specific Gravity: 2.3

Melting Point: 200 C (dec.)

### Section 10 — Stability and Reactivity

Avoid contact with strong oxidizers and acids.

When heated to decomposition, emits toxic fumes of NH<sub>3</sub> and NO<sub>x</sub>.

Shelf life: Indefinite

### Section 11 — Toxicological Information

Acute effects: Toxic, severe eye irritant; severe overexposure may result in greenish-black tongue discoloration.

Chronic effects: Possible mutagen

Target organs: N.A.

ORL-RAT LD50: 160 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 #27d is one option.

### Section 14 — Transport Information

Shipping Name: Ammonium Metavanadate

Hazard Class: 6.1, Poison

UN Number: UN2859

N/A = Not applicable

### Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (232-261-3), RCRA code P119.

### 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.**

"Your Safer Source for Science Supplies"

*Flinn--"Your Safer Source for Chemicals"*

flinn@flinnsci.com www.flinnsci.com  
P.O. Box 219 Batavia IL 60510  
(800) 452-1261 Fax (866) 452-1436