

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 59.00

Revision Date: July 8, 2011

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### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### Ammonium Metavanadate

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 metavanadate

Synonym: Ammonium vanadate

CAS#: 7803-55-6

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### SECTION 3 — HAZARDS IDENTIFICATION

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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

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### SECTION 4 — FIRST AID MEASURES

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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.

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### SECTION 5 — FIRE FIGHTING MEASURES

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Nonflammable solid.

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

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

#### NFPA CODE

None

established

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### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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Restrict unprotected personnel from the area. Remove all ignition sources and water. Ventilate area. Wipe up the spill, place in a sealed bag or container, and dispose. 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 acetates, halides, sulfates, sulfites, thiosulfates, and phosphates.

Deliquescent; store in Flinn Chem-Saf bag.

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 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:  $\text{NH}_4\text{VO}_3$

Formula weight: 116.99

Melting point: 200 °C (decomposes)

Specific gravity: 2.3

**SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with strong oxidizers and acids.

When heated to decomposition, emits toxic fumes of  $\text{NO}_x$  and  $\text{NH}_3$ .

Shelf life: Indefinite, if stored properly.

**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  $\text{LD}_{50}$ : 58.1 mg/kg

IHL-RAT  $\text{LC}_{50}$ : N.A.

SKN-RBT  $\text{LD}_{50}$ : 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 review all federal, state and local regulations that may apply, before proceeding.

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**

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