# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

**SDS #:** 59.10

**Revision Date:** December 13, 2013

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# **Ammonium Metavanadate Solution**

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

CHEMTREC Emergency Phone Number: (800) 424-9300 Signal Word DANGER

Pictograms

#### **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class: Acute toxicity, oral (Category 5). May be harmful if swallowed (H303).

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

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Ammonium metavanadate Sulfuric acid Sodium hydroxide Water	7803-55-6	NH <sub>4</sub> VO <sub>3</sub>	116.99	1%
	7664-93-9	H <sub>2</sub> SO <sub>4</sub>	98.08	5%
	1310-73-2	NaOH	39.997	<1%
	7732-18-5	H <sub>2</sub> O	18.00	93%

#### **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 in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. 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 (P301+P330+P331).

# **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable, noncombustible solution.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA CODE

None established

# SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Contain the spill with sand or absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

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### **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfates, thiosulfates, and phosphates.

## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling (P264).

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Yellow liquid. Odorless.

pH: ~1

Solution contains ammonium metavanadate, sulfuric acid, sodium

hydroxide, and distilled water.

### **SECTION 10 — STABILITY AND REACTIVITY**

When heated to decomposition, emits toxic fumes of NH<sub>3</sub> and NOx.

Shelf life: Indefinite, if stored properly.

#### **SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Toxic, severe eye irritant, corrosive. Severe

overexposure may result in greenish-black discoloration. Chronic effects: Possible mutagen

Target organs: N.A.

ORL-RAT LD<sub>50</sub>: 160 mg/kg as Ammonium metavanadate

IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: 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: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

# **SECTION 15 — REGULATORY INFORMATION**

Not listed.

#### SECTION 16 — OTHER INFORMATION

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