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

**SDS #:** 55.00

**Revision Date:** December 13, 2013

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# **Ammonium Citrate**

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

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

**Pictograms** 

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

Hazard class: Serious eye damage or irritation (Category 2A). Causes serious eye irritation (H319).

Hazard class: Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing dust or fumes (P261).

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SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Ammonium citrate	3012-65-5	$(NH_4)_2HC_6H_5O_7$	226.19	
Synonyms: Citric acid, ammonium salt				

#### **SECTION 4 — FIRST AID MEASURES**

Call a POISON CENTER or physician if you feel unwell (P312).

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 eye irritation persists:** Get medical advice or attention (P337+P313).

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

#### **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable solid.

NFPA CODE None

When heated to decomposition, may emit toxic fumes.

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

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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**

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

Store in a cool, dry place. Keep container tightly closed (P233). Use only in a hood or in a well-ventilated area (P271).

# SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling (P264). Use only in a hood or in a well-ventilated area (P271).

# **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

White powder. Odorless. Melting point: Decomposes Soluble: Water. Slightly in alcohol. Specific gravity: 1.5

# SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers, bases, and acids. May liberate ammonia.

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

Shelf life: Indefinite, if stored properly.

# **SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Irritant. ORL-RAT LD $_{50}$ : N.A. Chronic effects: N.A. INT-MUS LD $_{50}$ : 331 mg/kg Target organs: N.A. SKN-RBT 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 #26a 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**

TSCA-listed, EINECS-listed (221-146-3).

#### **SECTION 16 — OTHER INFORMATION**

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