

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 64.00

Revision Date: May 11, 2010

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Ammonium Persulfate

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 persulfate

Synonym: ammonium peroxydisulfate

CAS#: 7727-54-0

SECTION 3 — HAZARDS IDENTIFICATION

White, odorless crystal.

Moderately toxic by ingestion. Corrosive to body tissues. Avoid body tissue contact.

Oxidizer; fire risk when in contact with organic material.

FLINN AT-A-GLANCE

Health-2

Flammability-0

Reactivity-2

Exposure-2

Storage-0

0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

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: Immediately flush with fresh water for at least 15 minutes.

External: Wash continuously with fresh water for at least 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

When heated to decomposition, emits toxic fumes of SO_x, NH₃, and NO_x.

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

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Sweep up the spill, place in a 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 #6. Store with bromates and chlorates.

Moisture sensitive material.

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

White, odorless crystal.
Solubility: Water soluble (58 %).
Formula: $(\text{NH}_4)_2\text{S}_2\text{O}_8$
Formula Weight: 228.22

Melting Point: 120 °C (decomposes)
Specific Gravity: 1.9

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with organic materials and reducing agents. Avoid contact with caustic materials as this will liberate ammonia. When heated to decomposition, emits toxic fumes of SO_x , NO_x , and NH_3 .
Shelf life: indefinite

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Corrosive, gastrointestinal disturbances
Chronic effects: Dermatitis
Target organs: N.A.

ORL-RAT LD_{50} : 689 mg/kg
IHL-RAT LC_{50} : 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 consult with state and local regulations.
Flinn Suggested Disposal Method #12a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Ammonium Persulfate
Hazard Class: 5.1, Oxidizer
UN Number: UN1444
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-786-5), RCRA code D001.

SECTION 16 — OTHER INFORMATION

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