

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 81.00

Revision Date: March 14, 2001

Section 1 — Chemical Product and Company Identification

Arsenic Trioxide

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

Arsenic Trioxide

Synonym: arsenic (III) oxide

CAS#: 1327-53-3

Section 3 — Hazards Identification

White odorless powder.

Poison. Highly toxic. May be fatal if inhaled, swallowed or absorbed through skin. A known carcinogen. Powerful allergen.

When heated to decomposition, emits very toxic vapors.

FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-1

Exposure-3

Storage-3

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, non-combustible solid.

When heated to decomposition, emits very toxic vapors.

Fire Fighting Instructions: Use fire extinguisher suitable for surrounding fire. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

H-3

F-0

R-0

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area and ventilate area. Remove all ignition sources and water. Sweep up, place in sealed bag or container and dispose. 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 #7. Store with arsenates, cyanides and cyanates.

Store in a poison cabinet or a Flinn Chem-Saf can. 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 ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA 0.01 mg (As)/m³ (OSHA)

Section 9 — Physical and Chemical Properties

White odorless powder.

Solubility: Slightly soluble in water.

Formula: As₂O₃

Formula Weight: 197.84

Specific Gravity: 3.738

Section 10 — Stability and Reactivity

May decompose on exposure to moist air or water. Hazardous decomposition product: arsenic oxides. Keep away from heat, acids, oxidizing agents, and halogens.

Shelf life: good, if stored safely.

Section 11 — Toxicological Information

Acute effects: Highly toxic

Chronic effects: Carcinogen, mutagen

Target organs: Skin, lungs

ORL-RAT LD50: 14.6 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: Arsenic trioxide

Hazard Class: 6.1, Poison

UN Number: UN1561

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (215-481-4), RCRA code P012.

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.

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