

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 703.00

Revision Date: December 7, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Sodium Arsenate

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

Sodium arsenate

Synonym: Arsenic acid, disodium salt; Sodium hydrogen arsenate heptahydrate

CAS#: 10048-95-0

SECTION 3 — HAZARDS IDENTIFICATION

Colorless crystals. Odorless.

Known human carcinogen (IARC-1).

Highly toxic by ingestion and inhalation. Irritating to body tissues. Avoid all body tissue contact.

FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-1

Exposure-3

Storage-1

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 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.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

When heated to decomposition, emits toxic arsine vapors.

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

NFPA CODE

None
established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area. Ventilate area and remove all water sources. Sweep up, place in 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 #7. Store with arsenates, cyanides and cyanates.

Store in a cool dry place. Deliquescent. Store in Flinn Chem-Saf bag, and lock up in a poison cabinet. 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: PEL 0.5 mg/m³ (as As) (OSHA)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless, odorless crystals.
Solubility: Soluble in water; slightly in alcohol.
Formula: $\text{Na}_2\text{HAsO}_4 \cdot 7\text{H}_2\text{O}$
Formula weight: 312.014

Melting point: ~50 °C (when heated rapidly)
Specific gravity: 1.87

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong reducing agents, strong acids.
Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Highly toxic, irritant
Chronic effects: Causes dermatitis, carcinogen
Target organs: Skin, lungs

ORL-RAT LD₅₀: N.A.
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 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: Sodium Arsenate
Hazard class: 6.1, Poison
UN number: UN1685
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

EINECS-listed (231-902-4), RCRA code D004.

SECTION 16 — OTHER INFORMATION

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