

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 80.10

Revision Date: January 26, 2016

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Arsenic

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 3). Toxic if swallowed (H301). Do not eat, drink or smoke when using this product (P270).

Hazard class: Acute toxicity, inhalation (Category 3). Toxic if inhaled (H331). Avoid breathing dust or fumes (P261).

Hazard class: Carcinogenicity (Category 1). May cause cancer (H350). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).

Hazard class: Chronic hazards to the aquatic environment (Category 1). Very toxic to aquatic life with long lasting effects (H410).

Arsenic is classified as an IARC Group 1-Carcinogenic to Humans and NTP Known To Be Carcinogenic to Humans.

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Arsenic	7440-38-2	As	74.92	

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 so. Continue rinsing (P305+P351+P338). **If eye irritation persists:** Get medical advice or attention (P337+P313). **If on skin:** Wash with plenty of water (P302+P352). Take off contaminated clothing and wash before reuse (P362). **If swallowed:** Rinse mouth (P330). Immediately call a POISON CENTER or physician (P301+P310).

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid. Flammable in the form of dust when exposed to heat or flame or by chemical reactions. When heated to decomposition, may emit toxic fumes.

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

NFPA Code
None
established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Do not allow solid to become airborne. Wipe up dust with a damp paper towel to avoid generating dust. 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.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #10. Store with sulfur and phosphorus.
Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271). Store in a locked poison cabinet.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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

Exposure guidelines: PEL/TLV 0.01 mg/m³ (OSHA/ACGIH); IDLH 5 mg/m³

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Gray powder. Odorless.

Soluble: Nitric acid. Insoluble in water.

Boiling point: 613 °C (Sublimes)

Melting point: 817 °C

Specific gravity: 5.72

SECTION 10 — STABILITY AND REACTIVITY

When heated or on contact with acid or acid fumes, it emits highly toxic fumes. Can react vigorously on contact with oxidizing materials. Hydrogen gas can react with inorganic arsenic to form the highly toxic gas arsine.

Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Moderately toxic.

Chronic effects: Carcinogen (IARC-1, NTP-known)

Target organs: Skin, lungs.

ORL-RAT LD₅₀: 763 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

Very toxic to aquatic life with long lasting effects.

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: Arsenic; Hazard class: 6.1, Poison; UN number: UN1558.

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-148-6). 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.

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