

Safety Data Sheet (SDS)

8/19/2024: File reviewed, more current MSDS/SDS not available. CAS

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Silver Nitrate Solution 0.3 M - 1 M

Signal Word
DANGER

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

Chemtrec Emergency Phone Number: (800) 424-10255

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Corrosive to metals (Category 1). May be corrosive to metals (H290).



Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe mist, vapors or spray (P260).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Silver nitrate	7761-88-8	AgNO ₃	169.87	5-17%
Water	7732-18-5	H ₂ O	18.00	83-95%

SECTION 4 — FIRST AID MEASURES

Immediately contact POISON CENTER or physician.

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 on skin or hair:** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).**If swallowed:** Rinse mouth. Do NOT induce vomiting (P301+P330+P331).**SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable, noncombustible solution.

NFPA Code

Reacts with NH₃ to form shock sensitive compounds. When heated to decomposition, may emit toxic fumes.

None established

In case of fire: Flood with water. Do NOT use a tri-class dry chemical, carbon dioxide or halon fire extinguisher.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Contain spill with sand or absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information. Absorb spills to prevent material damage (P390).

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #3. Store with amides, nitrates, nitrites and azides.

Light sensitive. Store in a Flinn Chem-Saf™ bag, and lock up in a poison cabinet. Keep only in original container (P234).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

Exposure guidelines: (as silver nitrate) PEL/TLV 0.01 mg/m³ (OSHA, ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless liquid. Odorless.

SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Indefinite, but light sensitive. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Diarrhea, cyanosis

ORL-RAT LD₅₀: 1173 mg/kg as silver nitrate

Chronic effects: Argyrosis

IHL-RAT LC₅₀: N.A.

Target organs: N.A.

SKN-RBT LD₅₀: N.A.

SECTION 12 — ECOLOGICAL INFORMATION

Toxic to aquatic species.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #11 is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

SECTION 15 — REGULATORY INFORMATION

Not listed.

SECTION 16 — OTHER INFORMATION

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

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

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