

MATERIAL SAFETY DATA SHEET

SILVER NITRATE 10%, 25%, 50% SOLUTION

Delasco Dermatologic Lab & Supply, Inc.
608 13th Ave., Council Bluffs, IA 51501 1-712-323-3269
www.delasco.com questions@delasco.com
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Product/Chemical Name: SILVER NITRATE 10%, 25%, 50% SOLUTION

Formula: AgNO₃

Physical Description: Odorless, colorless, transparent solution with a metallic taste and a slight nitric acid odor. BP 831°F (444°C) Water soluble Specific Gravity: 4.352 at 19°C

Special Hazards: Self-contained breathing apparatus required. May ignite other combustible materials. Reaction with fuels may be violent. Runoff to sewer may create fire or explosion hazards.

Unusual Fire/Explosion Hazards: Negligible fire hazard when exposed to heat or flame. Oxidizers decompose, especially when heated, to yield oxygen or other gases which will increase the burning rate of combustible matter. Contact with easily oxidizable, organic, or other combustible materials may result in ignition, violent combustion or explosion.

Reactivity: Stable under normal temperatures and pressures. Incompatible with numerous compounds such as alcohol, metals, phosphates and metal nitrates.

Hazardous Decomposition Products: Thermal decomposition products may include toxic oxides of nitrogen.

Spill or Leak Procedures

Action: Design a holding area such as a pit, pond or lagoon to contain spilled material. If material is dissolved, use sodium sulfide solution to precipitate heavy metals. Neutralize with agriculture lime, slaked lime, crushed limestone, or sodium bicarbonate. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Do not touch spilled material. For small liquid spills, flush area with flooding amounts of water. The Superfund Amendment and Reauthorization Act sect. 304 requires that a release of one pound or greater be reported immediately to the local emergency planning committee and the state emergency response commission.

Disposal Method: To be performed in compliance with all current local, state and federal regulations.

Threshold Limit Value: 0.01 mg/m³ OSHA TWA; 0.01 mg/m³ ACGIH TWA

Overexposure Effects: Repeated ingestion may cause argyria, anemia, and nephritis.

First Aid Procedures

Skin: Remove contaminated clothing and wash area with soap and water for at least 15 minutes until no evidence of chemical remains. In case of chemical burns, cover area with sterile, dry dressings. Bandage securely, but not too tightly. Get medical attention immediately.

Eyes: Check for and remove any contact lenses. Flush immediately with water for 15-20 minutes. Continue irrigating with normal saline until the pH has returned to normal (30-60 minutes). Get medical attention

Ingestion: Check for and remove any dentures. If victim is conscious, give water with sodium chloride, 10 g/L. Follow with catharsis using 30-60 mL of fleets diluted 1:4 in water containing 5% NaCl. Get medical attention immediately.

Inhalation: Remove to fresh air. Give oxygen if necessary. Get medical attention.

Storage Recommendations: Store at room temperature.

Special Protection Information

Exhaust ventilation recommended. Protective gloves and safety goggles are recommended.

Special Handling Precautions

DOT Hazard Class: Corrosive Material.