

SILVER NITRATE 0.1N SOLUTION

1. Product Identification

Synonyms: Silver nitrate volumetric solution 0.1 Normal

CAS No.: 7761-88-8

Molecular Weight: 169.87

Chemical Formula: AgNO_3 (in water)

Product Code : 21019

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Silver Nitrate	7761-88-8	0.2 - 5%
Water	7732-18-5	95 - 100%

3. Hazards Identification

Potential Health Effects

Inhalation: Severe irritation to the respiratory tract with coughing, wheezing, shortness of breath, nausea, and vomiting.

Ingestion: Blackening of the skin and mucous membranes, throat and abdomen, diarrhea and shock.

Skin Contact: Effects are expected to be less severe than for exposure to higher concentrations where symptoms include redness, pain and severe burns.

Eye Contact: Causes severe eye irritation, redness and pain. Contact may cause eye damage.

Chronic Exposure: Prolonged or repeated inhalation, application or ingestion of silver compounds may cause a permanent bluish discoloration of the skin, eyes, and mucous membranes.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire: Not combustible, but concentrated material is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

Explosion: Silver nitrate reactions may cause explosions.

Fire Extinguishing Media: Use water only on small fires; do not use dry chemical or carbon dioxide. For large fires, flood the area with water.



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Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
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6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.

7. Handling and Storage

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Protect from light. Protect from freezing. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded and engineering controls are not feasible, a half-face high efficiency particulate respirator (NIOSH type N100 filter) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Clear, colorless solution.

Odor: Odorless.

Solubility: Miscible in water.

Density: 1.00

pH: No information found.

% Volatiles by volume @ 21C (70F): ca. 98

Boiling Point: No information found.

Melting Point: No information found.

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability: Stable at room temperature in sealed containers.

Hazardous Decomposition Products: Oxides of nitrogen and toxic metal fumes may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Reducing agents, ammonia, alkalis, antimony salts, arsenites, bromides, carbonates, chlorides, iodides, thiocyanates, ferrous salts, phosphates, tannic acid and tartrates. Concentrated material is a strong oxidizing agent and can cause a fire when contacted with combustible materials.

Conditions to Avoid: Light, heat, incompatibles.

The information contained herein is in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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11. Toxicological Information

Silver nitrate: Oral rat LD50: 1173 mg/kg; Irritation, rabbit, eye, Std Draize: 1 mg, severe. Investigated as a tumorigen, mutagen, reproductive effector.

12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No

Reactivity: No (Mixture / Liquid)

16. Other Information

Product Use:

Laboratory Reagent.