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Customer Service: Phone (310)787-6800, (800)424-9394  
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CHEMTREC Emergency Response Telephone Number: (800)424-9300

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

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### Section I - Product Identification

An aqueous solution of silver nitrate.

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### Section II - Hazards Identification

Danger. Fatal if swallowed. Wash thoroughly after handling. Do not eat drink or smoke while using this product. If swallowed, immediately call a poison center and rinse mouth with water. Administer antidote for silver poisoning if available.

#### Safety Ratings

*Health:* Hazardous *Flammability:* None *Reactivity:* Reactive (Oxidizer) *Contact:* Slight

*Recommended safety equipment:* safety goggles, lab coat and proper gloves

*Storage:* General storage

#### NFPA Ratings

Health = 2 Flammability = 0 Reactivity = 2



#### Potential Health Effects

Soluble silver salts are toxic. Ingestion will cause chemical burns, as well as damage to the gastrointestinal tract. Convulsions and death may result.

*Inhalation:* Corrosive.

*Ingestion:* Soluble silver salts are very toxic and ingestion causes chemical burns, nausea, vomiting, diarrhea, death etc.

*Skin contact:* Causes discoloration of the skin which may not be apparent until hours after contact.

*Eye contact:* Corrosive to the eye.

*Chronic Exposure:* Chronic exposure can cause silver poisoning including a permanent blue discoloration of the skin.

*Aggravation of preexisting conditions:* Unknown.

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### Section III - Composition/Information on Components

Ingredients	CAS#	OSHA Pel	ACGIH TLV	Other Limits	%
Silver nitrate	7761-88-8	0.01 mg/m3 TWA (Ag)	0.01 mg/m3 TWA (Ag)		1%

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### Section IV - First Aid Measures

*Inhalation:* Unlikely to be a problem because of the low vapor pressure. Remove from source of exposure and get medical attention for any breathing difficulty.

*Ingestion:* If the victim is conscious administer large amounts of water and get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

*Skin Contact:* Wash affected area with soap and water. Get medical advice if irritation develops.

*Eye Contact:* Rinse thoroughly with running water. Get medical advice if irritation develops.

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## Section V - Fire Fighting Measures

*Flash point:* Not applicable.

*Flammable Limits:* Not applicable.

*Fire:* Not normally a fire Hazard, but silver nitrate is an oxidizer and can react with organic materials.

*Explosion:* Not Normally an explosion hazard.

*Fire Extinguishing Media:* Any means suitable for surrounding fire.

*Special information:* Pyrolysis will release corrosive oxides.

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## Section VI - Accidental Release Measures

Absorb with a suitable absorbent and store in a suitable container for disposal.

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## Section VII - Handling and Storage

Store locked up. Store in a closed container, protected from freezing.

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## Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section III.

*Ventilation System:* Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Usually not required.

*Skin protection:* Protective gloves are required.

*Eye Protection:* Laboratory safety goggles or similar products are required.

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## Section IX - Physical and Chemical Properties

*Boiling Point:* 100 °C

*Vapor pressure (mm Hg):* 18 @ 20 °C

*Vapor Density (air = 1):* 0.6

*Appearance and Odor:* A clear, colorless liquid.

*Density:* 1.01 g/ml

*Evaporation Rate (water = 1):* 1

*Solubility:* Infinitely miscible with water

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## Section X - Stability and Reactivity

*Stability:* Freezes at low temperature.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Nothing unusual.

*Conditions to avoid:* Excessive cold/heat and light.

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## Section XI - Toxicological Information

None relating to normal exposure. Silver nitrate is toxic by ingestion

Cancer lists

<u>Ingredient</u>	<u>Known Carcinogenicity?</u>	<u>Anticipated?</u>	<u>IARC Category</u>
Silver Nitrate	No	No	None

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## Section XII - Ecological Information

*Environmental Fate:* Not biodegradable

*Environmental Toxicity:* Toxic to aquatic organisms

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## Section XIII - Disposal Considerations

Waste disposal of silver compounds is often restricted but local ordinances vary..Silver compounds are often recycled because of their high economic value. Dispose of contents and container in accordance with all government regulations.

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**Section XIV - Transportation Information**

Not regulated.

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**Section XV - Regulatory Information****Chemical Inventory Status**

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<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Silver Nitrate	Yes	Yes

**Federal, State and International Regulations**

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<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	<u>Ca. Prop 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	
Silver Nitrate	No	No	No	Silver Cmpd	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

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

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**Section XVI - Other Information**

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

Revision Date: Jan. 15, 2018