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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.

Section I - Product Identification

An aqueous solution of silver nitrate.

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

The toxicology of this compound has not been completely examined. It is presumed that the toxicity of this item is similar to that of other soluble silver compounds.

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.

Section III - Composition/Information on Components

| Ingredients | CAS# | OSHA PeI | ACGIH TLV | Other Limits | % |
|----------------|-----------|---------------------------------|---------------------------------|--------------|----|
| Silver nitrate | 7761-88-8 | 0.01 mg/m ³ TWA (Ag) | 0.01 mg/m ³ TWA (Ag) | | 5% |

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.

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.

Section VI - Accidental Release Measures

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

Section VII - Handling and Storage

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

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.

Section IX - Physical and Chemical Properties

Boiling Point: 101 °C

Vapor pressure (mm Hg): 18 @ 20 °C

Vapor Density (air = 1): 0.6

Appearance and Odor: A clear, colorless liquid.

Density: 1.04 g/ml

Evaporation Rate (water = 1): 1

Solubility: Infinitely miscible with water

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.

Section XI - Toxicological Information

None relating to normal exposure.

Cancer lists

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

Section XII - Ecological Information

Environmental Fate: Not biodegradable

Environmental Toxicity: Toxic to aquatic organisms

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.

Section XIV - Transportation Information

Not regulated.

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

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

Federal, State and International Regulations

| <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

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.

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