

**Section 1. Product and Company Identification**

Item Number.: s181S-1  
 Common Name.: Silver Nitrate Solution (Fontana)  
 Intended Use : In Vitro Diagnostic use. Laboratory Use Only  
 IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Manufacturer.: Poly Scientific R&D Corp.

70 Cleveland Ave  
 Bay Shore NY 11706

polyrnd@polyrnd.com

**Section 2. Hazard Identification**

272 Oxidising liquids; Oxidising solids Cat 2  
 302 Acute toxicity, oral Cat 4  
 314 Skin corrosion/irritation Cat 1A, B, C



Danger

May intensify fire; oxidiser.

Harmful if swallowed.

Causes severe skin burns and eye damage.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep/Store away from clothing/ combustible materials.

Take any precaution to avoid mixing with combustibles. Do not breathe dust/fume/gas/mist/vapours/spray.

Wash hands/skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face

protection. IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated

clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

Wash contaminated clothing before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Store locked up.

Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise covered by GHS: None

**Section 3. Composition Information**

Exposure Limits(A blank value indicates no information available) The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Silver Nitrate	7761-88-8		0.01		5-10%
Ammonium Hydroxide	1336-21-6	35.00	50.00		5-10%

**Section 4. First Aid Measures**

Eye Contact : Check for and remove contact lenses. Wash with large amounts of water for 15 minutes. Seek medical attention.

Skin Contact : Remove contaminated clothing and shoes. Wash the affected area with large with soap and water. Seek medical attention

Ingestion : Give two glasses of water to a conscious victim. Do not induce vomiting. Seek medical attention

Inhalation : Move person to fresh air. If necessary give CPR; warning this could pose a risk of exposure to the rescue breather. Seek medical attention

The most important known symptoms and effects are described in section 2 and/or section 11.

**Section 5. Fire Fighting Measures**

Extinguishing Media.: Dry Chemical Powder, Alcohol Foam, Water Spray or Carbon Dioxide

Special Fire and Explosion Remarks.: N/A

**Section 6. Accidental Release Measures**

Spill Cleanup and Disposal Special.: Pick up spill with absorbent vermiculite

Spill Cleanup.: Take up spills with absorbant material and containerize for proper disposal. Use proper PPE as per section 8. Provide ventilation.

**Section 7. Handling and Storage**

Storage and Handling Special.: Refrigerate

Storage and handling.: Keep container tightly closed. Store in a cool, dry area and protect from physical damage

**Section 8. Exposure Controls/Personal Protection**

Personal Protective Equipment.: Splash Goggles, Gloves, Synthetic Apron, Vapor Respirator

This information is provided as a guide but proper PPE can only be determined by the end user and their situation.

Engineering Controls.: Provide local exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are local to the work-station.

**Section 9. Physical and Chemical Properties**

Appearance.....: Colorless liquid	Evaporation Rate.....: N/A	Water Soluable? .....: Yes
Odor.....: N/A	Upper Flammability Limit (%): N/A	Volatile Percent .....: N/A
Odor Threshold .....: N/A	Lower Flammability Limit (%): N/A	Partition Coefficient .....: n-octanol/water: N/A
pH .....: N/A	Specific Gravity (@20C) .....: N/A	Auto Ignition Temp. ....: N/A
Melting Point.....: N/A	Vapor Pressure (mm Hg) .....: N/A	Decomposition Temp.....: N/A
Boiling Point.....: N/A	Vapor Density (Air=1) .....: N/A	Viscosity .....: N/A
Flash Point (F) TCC.....: N/A	Relative Density .....: N/A	

**Section 10. Stability and reactivity**

Special Remarks on Stability.: Stable

Special Remarks on Reactivity.: N/A

Water Reactive.: No

**Section 11. Toxicological Information**

Routes of Entry.: Inhalation, Skin Absorption, Ingestion

Animal Toxicity.: Silver Nitrate: Acute Oral (LD50) 50 mg/kg (Mouse) Intraperitoneal(LD50) 34500 ug/kg (Mouse); Ammonium Hydroxide Acute Oral (LD50) 350 mg/kg (Mouse) I.V. (LDL0) 10 mg/kg (Rabbit); Potassium Hydroxide: Acute Oral (LD50)

Human Toxic Effects.: Target Organs: Blood, eyes, skin, mucous membranes

Potential Acute Health Effects...: Hazardous in case of eye,skin contact, inhalation,ingestion

Potential Chronic Health Effects...: Mutagenic. Repeated exposure can produce target organ damage.

**Section 12. Ecological Information**

Ecological Information.: N/A

**Section 13. Disposal Considerations**

Waste Disposal.: Dispose of in accordance with local,state and federal laws.

**Section 14. Transport Information**

DOT Identification.: UN1760, Corrosive liquid,N.O.S. (Silver Nitrate),8,III

**Section 15. Regulatory Information**

State Regulations.: New York release reporting list:Silver Nitrate, Ammonium Hydroxide

Component	CAS#	Sara Section 311 Reporting									
		Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA	
Silver Nitrate	7761-88-8	No	No	No	No	No	Yes	Yes	No		
Ammonium Hydroxide	1336-21-6	No	No	No	No	No	No	Yes	No		

**Section 16. Other Information**

Review Date : 3/15/2023

Reviewed by : Admin

MSDS Group Id.: 12

Notice: This SDS applies only to the material as packaged. If the material is altered by any means it may pose risks not mentioned here.

It is the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use.

While this SDS is based on reliable technical data, Poly Scientific R&D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.