



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
3 <sub>COR</sub>	Health Hazard  Fire Hazard  0	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1
Common Name/ Trade Name	Silver Nitrate, SVS 0.0141N	Catalog Number(s).	SV195
		CAS#	Mixture.
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.	RTECS	Not applicable.
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Silver nitrate; Water
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	Not available.	DI GAGE O	T EL CENCEN
Chemical Name	Not applicable.		<u>PF EMERGENCY</u> <u>PC (24hr) 800-424-9300</u>
Chemical Family	Not available.	CALL (310)	516-8000
Chemical Formula	Not applicable.		
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
Silver nitrate     Water		7761-88-8 7732-18-5	0.01			2.39 97.6
Toxicological Data on Ingredients	Silver nitrate: ORAL (LD50):	Acute: 1173 m	g/kg [Rat]. 50 mg/kg	[Mouse].		

#### Section 3. Hazards Identification

Potential Acute Health Effects Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation. Non-sensitizer for skin. 
Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

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Potential Chronic Health Effects	Non-corrosive for skin. Non-irritant for skin. Non-sensitizer for skin. Non-permeator by skin. Non-irritating to the eyes. Non-hazardous in case of ingestion. Non-hazardous in case of inhalation.  CARCINOGENIC EFFECTS: Not available.  MUTAGENIC EFFECTS: Not available.  TERATOGENIC EFFECTS: Not available.  DEVELOPMENTAL TOXICITY: Not available.  The substance is toxic to lungs, mucous membranes.  Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged
	exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

Section 4. First A	id Measures	
<b>Eye Contact</b>	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.	
Skin Contact	If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.	
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.	
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.	
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.	
Ingestion	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.	
<b>Serious Ingestion</b>	Not available.	

Section 5. Fire and E.	xplosion Data
Flammability of the Product	Non-flammable.
<b>Auto-Ignition Temperature</b>	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
<b>Products of Combustion</b>	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available.  Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

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Section 6. Accidental Release Measures		
Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.	
Large Spill	Corrosive liquid.  Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.	

Section 7. Handling and Storage		
Precautions	Keep container dry. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Never add water to this product Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.	
Storage	Corrosive materials should be stored in a separate safety storage cabinet or room.	

Section 8. Exposure	Controls/Personal Protection
<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
<b>Personal Protection</b>	Face shield. Full suit. Gloves (impervious). Boots.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Exposure Limits</b>	Silver nitrate TWA: 0.01 (mg/m³) from ACGIH [1995]
	Consult local authorities for acceptable exposure limits.

Section 9. Physical a	nd Chemical Properties		
Physical state and appearance	Liquid.	Odor	Not available.
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% soln/water)	Neutral.	Color	Not available.
<b>Boiling Point</b>	The lowest known value is 100°C (212°F) (Water).		
Melting Point	Not available.		
Critical Temperature	Not available.		
Specific Gravity	Weighted average: 1.02 (Water = 1)		
Vapor Pressure	The highest known value is 17.535 mm of Hg (@ 20°C) (Water).		
Vapor Density	The highest known value is 0.62 (Air = 1) (Water).		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water. Soluble in hot water.		

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Section 10. Stability and Reactivity Data			
Stability	The product is stable.		
Instability Temperature	Not available.		
<b>Conditions of Instability</b>	Not available.		
Incompatibility with various substances	Not available.		
Corrosivity	Non-corrosive in presence of glass.		
Special Remarks on Reactivity	Not available.		
Special Remarks on Corrosivity	Not available.		
Polymerization	No.		

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Section 11. Toxicological Information			
<b>Routes of Entry</b>	Not available.		
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 2092 mg/kg (Mouse) (Calculated value for the mixture).		
Chronic Effects on Humans	The substance is toxic to lungs, mucous membranes.		
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.  Non-sensitizer for skin.		
Special Remarks on Toxicity to Animals	Not available.		
Special Remarks on Chronic Effects on Humans	Not available.		
Special Remarks on other Toxic Effects on Humans	Not available.		

Section 12. Ecological Information			
Ecotoxicity	Not available.		
BOD5 and COD	Not available.		
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.		
Toxicity of the Products of Biodegradation	The products of degradation are more toxic.		
Special Remarks on the Products of Biodegradation	Not available.		

#### Section 13. Disposal Considerations

Waste Disposal

### Section 14. Transport Information

DOT Classification CLASS 8: Corrosive liquid.

Identification : Corrosive liquid, n.o.s. (Silver nitrate, solution) : UN1760 PG: III

**Special Provisions for** 

**Transport** 

Marine Pollutant

DOT (Pictograms)



#### Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations Pennsylvania RTK: Silver nitrate Massachusetts RTK: Silver nitrate TSCA 8(b) inventory: Silver nitrate; Water

SARA 313 toxic chemical notification and release reporting: Silver nitrate

CERCLA: Hazardous substances.: Silver nitrate;

Canforma
Proposition 65

r roposition o Warnings

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications

WHMIS (Canada) CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive liquid.

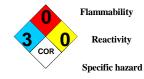
DSCL (EEC) R35- Causes severe burns.

HMIS (U.S.A.)



**National Fire Protection Association (U.S.A.)** 

Health



WHMIS (Canada) (Pictograms)





DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



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## Silver Nitrate, SVS 0.0141N

ADR (Europe) (Pictograms)



#### **Protective Equipment**



Gloves (impervious).



Full suit.

Wear appropriate respirator when ventilation is inadequate.

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Face shield.

Section 16. Other Information			
MSDS Code	SV195		
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen. Printed 9/13/2006.	

#### CALL (310) 516-8000

#### **Notice to Reader**

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.