Section 1	Chemical Product and Company Information	
	80 Northwest Blvd. Nashua, NH 03063 (800) 225-3739	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.
Product	SILVER NITRATE	
Synonyms	Silver(I) Nitrate	
Section 2	Hazards Identification	
GHS Classi Ox. Sol. (Ca Skin Corr. (C Aquatic Acut Aquatic Chru GHS Label H272: May i H314: Causu	: GHS03 / GHS05 / GHS09 ns: Kidneys, Liver, Eyes, Skin fication: tegory 2)	 Precautionary statement(s): P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P220: Store away from clothing and combustible materials. P221: Take any precaution to avoid mixing with combustibles. P260: Do not breathe dust. P264: Wash hands thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P310: Immediately call a POISON CENTER or doctor. P301+P330: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P363: Wash contaminated clothing before reuse. P370+P378: In case of fire: Use water to extinguish. P391: Collect spillage. P405: Store locked up. H501: Dispose of contents/container to a licensed chemical disposal agency in accordance with all local, state and federal regulations.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 3	Composition / Information on Ingredients				
Chemical Name		CAS #	%	EINECS	
Silver nitrate		7761-88-8	100%	231-853-9	
Section 4	First Aid Measures				

INGESTION: MAY BE FATAL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CONTACT CAUSES CORNEAL DAMAGE OR BLINDNESS. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CONTACT CAN CAUSE BURNS. Remove contaminated clothing. Flush thoroughly with mild scap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use water. Do not use dry chemicals or foams. CO2 or Halon® may provide limited control.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Substance is a strong oxidizer which releases oxygen on heating. The oxygen will intensify any fire in the immediate surroundings.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Handling & Storage Section 7

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area. Keep away from ignition sources. Store in resistant containers. Do not store in wooden, cardboard or paper containers. Store away from flammable and combustible materials.

Section 8	Exposure Controls / Personal Protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Limits.	Silver, soluble compounds, as Ag	TWA: 0.01 mg/m ³	TWA: 0.01 mg/m ³	TWA: 0.01 mg/m ³			

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9 Physical & Chemical Prop	perties	
Appearance: Solid, white crystals. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: 212°C (>413°F) Boiling point: Decomposes Flash point: Data not available	Evaporation rate (=1): Not applicable Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Data not available Vapor density (Air = 1): 5.8 Relative density (Specific gravity): 4.35 Solubility(ies): +/- 10% in water	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: 444°C (>831°F) Viscosity: Not applicable Molecular formula: AgNO ₃ Molecular weight: 169.87
Section 10 Stability & Reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition.

Incompatible materials: Combustible materials, reducing agents, organic substances, strong basis and alkalis.

Hazardous decomposition products: Nitrogen oxides.

Section 11 **Toxicological Information**

Acute toxicity: Oral-rat LD50: 1,173 mg/kg ; Dermal-guinea pig LD50: >216 mg/kg Skin corrosion/irritation: Human - Corrosive Serious eye damage/irritation: Rabbit - Corrosive Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation of dust will produce irritation to gastrointestinal or respiratory tract, characterized by burning, sneezing, and coughing. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage

Ingestion: Poisonous if swallowed. Ingestion causes severe gastroenteritis.

Skin: Contact with skin can produce inflammation and blistering.

Eyes: Contact with eyes may cause corneal damage or blindness.

Signs and symptoms of exposure: Irritation of upper respiratory tract. Skin irritation or burns. Severe irritation or burns to eyes.

Listed

Additional information: RTECS #: VW4725000

Continue 40 Easteriast Information

Section 12 Ecological mormation						
Toxicity to fish: Oncorhynchus mykiss (fish, fresh water Toxicity to daphnia and other aquatic invertebrates: [Daphnia magr	na (Crustacia), EC50 =	• 0.0006 mg/l/48 ho	ours		
Toxicity to algae: Chlorella vulgaris (Algae), EC50 = Ca	. 0.1 mg/l/14 (day - growth rate				
Persistence and degradability: No data available	Bioaccumu	lative potential: No	data available			
Mobility in soil: No data available	PBT and vF	VB assessment: No	data available			
Other adverse effects: An environmental hazard canno	t be excluded	I in the event of unprof	essional handling c	or disposal.		
Section 13 Disposal Considerations						
These disposal guidelines are intended for the disp regulations may be different. Dispose of in accorda						
Section 14 Transport Information						
UN/NA number: UN1493 Shipping nan	ne: Silver r	nitrate				
Hazard class: 5.1 Packing grou	ip:	Reportat	le Quantity: > '	1 lbs (0.454 l	(a) Ma	rine pollutant: No
Exceptions: Limited quantity equal to or less that	•	•	G Guide # 140		-3/	
Section 15 Regulatory Information						
A chemical is considered to be listed if the CAS number for the a	nhydrous form	is on the Inventory list.				
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification

Listed

Section 16 **Additional Information**

Silver nitrate

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook

D001, D011

Listed

Not listed

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