

MATERIAL SAFETY DATA SHEET

OSHA requires that this form be kept on file.

C4579R

Product No. C4579H

Product Name SILVER NITRATE

24 HOUR EMERGENCY ASSISTANCE
CHEMTREC 800-424-9300
HAZARD BATING
4-EXTREME
3-SEVERE
Health Hazard 3

4-EX VERME 3-SEVERE 2-MODERATE 1-SLIGHT 0-MINIMAL Health Hazard 3 Flammability 0 Reactivity 3

Chemical Synonyms Lunar Caustic

Formula AgNO₃

C.A.S. No. 7761-88-8

Principal Hazardous Component(s)

Silver * CAS# 7440-22-4

* CAS#

Melting Point (°F)

212°C

Specific Gravity (H₂O=1)

4.35

Boiling Point (°F)

212°C

Percent Volatile by Volume (%)

N/A

Vapor Pressure (mm Hg)

N/A

Vapor Density (Air=1)

Solubility in Water

952 gr/100 ml water at 100°C

Appearance & Odor

Colorless or white odorless crystals.

Flash Point (Method Used)

Fig. Not Flammable | Flammable Limits in Air % by Volume | N/A | N/A | N/A | N/A |

Extinguisher Proper to the primary cause of fire.

Special Firefighting Procedures

None known.

Unusual Fire and Explosion Hazards

Oxidizer. Reacts with organics to produce flammable products. Reacts with reducing agents. Decomposes at 444°C to emit NO_x

D.O.T. Silver nitrate, 5.1, UN1493, PGII

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

VIUMEE	HARRIE LYANIEUN
Threshold Limit Value	

0.01 mg/m³ See Section II

Effects of Overexposure

Argyria, a blue-grey discoloration of the skin, mucous membranes and eyes may result from inhalation of silver. Caustic and irritating to skin, mucous membranes and eyes. Can cause burns, causing skin to darken and/or peel.

Emergency and First Aid Procedures

Inhalation: Excessive exposure (inhalation) can cause cosmetic discoloration (argyria). **Eyes:** Wash well with water, 6% common salt solution if available. **Skin:** Wash well with water. **Ingestion:** Poisonous. Fatal if swallowed. If victim is conscious, induce vomiting. Call physician.

Stability		Conditions to Avoid				
Stable 🛚	Unstable 🖵	N/A				
Incompatibility (Materials to Avoid) Hazardous Decomposition Products Hazardous Polymerization		Organics, reducing agents, excessive temperatures. None				
		May Occur	Will Not M	N/A		

Steps to be Taken in Case Material is Released or Spilled

Vacuum up solid, soak up solution, to plastic bottle or bag.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Send to refiner for silver recovery.

SECTION VIII	SPECIALP	PERCEI	(0) 1111120	1:177.6	T (6)N			
Respiration Protection (Specify Type)	R57A (American Optical) HEPA type.							
Ventilation	Local Exhaust	X		Specia	1			
ventuation	Mechanical (General)			Other				
Protective Gloves	Elbow length neoprene		Eye Protection		Safety goggles			
Other Protective Equipment	Rubber or plastic apron. Lab coat.							
the same of the sa								

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container lightly closed when not in use. Store in a safe, dry place. Avoid contact with organics. Do not store in wooden, cardboard or paper container.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

None

Approved by Steven C. Quandt

Effective Date

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

information contained herein is fumished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them
of independent determination of suitability and completeness of information from all sources to assure proper use of these malerials and the setlety and results of appropriately

10/24/2000