



IMPORTANT

MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL
OSHA requires that this form be kept on file.

Product No. KM 712 M
Product Name SILVER NITRATE

24 HOUR EMERGENCY ASSISTANCE
CHEMTREC 800-424-9300
HAZARD RATING

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

SECTION I	NAME
Chemical	Lunar Caustic
Synonyms	
Formula	AgNO ₃
C.A.S. No.	7761-88-8

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	P.E.L.	TLV Units
Silver * CAS# 7440-22-4	63.5%	0.01 mg/m ³	0.01 mg/m ³

Jan 2016

SECTION III PHYSICAL DATA

Melting Point (°F)	212°C
Boiling Point (°F)	212°C
Vapor Pressure (mm Hg)	N/A
Vapor Density (Air=1)	N/A
Solubility in Water	952 gr/100 ml water at 100°C
Appearance and Odor	Colorless or white odorless crystals

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not Flammable	Flammable Limits in Air % by Volume	Lower N/A	Upper N/A
Extinguisher Media	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.

SECTION V THRESHOLD LIMIT VALUE DATA
Threshold Limit Value
0.01 mg/m³ See Section II

Effects of Overexposure
Argyria, a blue-grey discoloration of the skin, mucous membranes & eyes may result from inhalation of silver. Caustic & irritating to skin, mucous membranes & 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.

SECTION VI REACTIVITY DATA

Stable	<input checked="" type="checkbox"/>	Unstable	<input type="checkbox"/>	N/A
Incompatibility (Materials to Avoid)	Organics, reducing agents, excessive temperatures.			
Hazardous Decomposition Products	None			
Hazardous Polymerization	Conditions to Avoid			
May Occur	<input type="checkbox"/>	Will Not Occur	<input checked="" type="checkbox"/>	N/A

SECTION VII SPILL OR LEAK PROCEDURES
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 SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	R57A (American Optical) HEPA type.		
Ventilation	Local Exhaust	Special	Other
	Mechanical (General)	X	-----
Protective Gloves	Elbow length neoprene	Eye Protection	Safety goggles
Other Protective Equipment	Rubber or plastic apron. Lab coat.		

SECTION IX PRECAUTIONS
Precautions to be Taken in Handling & Storing
Keep container tightly 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	05/12/2000
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