Section 1 - Product Description

Product Name: Silver Nitrate
Size: Various
Chemical Name: Silver Nitrate
CAS Number: 7761-88-8
Formula: AgNO₃
Synonyms: Lunar Caustic; Nitric Acid, Silver (1+) Salt
Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Potential Health Effects:
   Eyes: Causes severe burns and eye damage upon direct contact. Vapor is irritating.
   Ingestion: May severely irritate or damage digestive tract.
   Skin: May cause severe irritation or chemical burns.
   Inhalation: May severely irritate or damage mucous membranes and respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Silver Nitrate (7761-88-8) 100%
TLV units: ACGIH-TLV 0.01 Ag mg/m³
PEL units: OSHA-PEL 0.01 Ag mg/m³

Section 4 - First Aid Measures

Emergency and First Aid Procedures:
   Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
   Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of ... (Water, unless specified as a water reactive material).
   Ingestion - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A
NFPA Rating:
  Health: 3
  Fire: 0
  Reactivity: 0
Extinguisher Media: Water in flooding amounts. Do not use dry chemical, CO2, or halon.
Water spray.
Flammable Limits in Air % by Volume: N/A
Autoignition Temperature: N/A
Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Powerful oxidizer.
Contact with combustible material may cause fire.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep container tightly closed and at temperature not exceeding ... °C (to be specified by the manufacturer).
Keep container tightly closed in a cool, well-ventilated place.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.
Ventilation:
  Local Exhaust: Yes
  Mechanical(General): Yes
  Special: No
  Other: No
Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.
Eye Protection: Splash proof chemical safety goggles should be worn.
Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 169.87
Boiling Point: 440 °C (decomposes)
Vapor Density(Air=1): N/A
Percent Volatile by Volume: N/A
Solubility in Water: Soluble
Melting Point: 212 °C
Vapor Pressure: N/A
Specific Gravity (H2O=1): 5.35
Evaporation Rate (BuAc=1): N/A
Appearance and Odor: White, odorless crystals.

Section 10 - Reactivity Data

Stability: Stable
Conditions to Avoid: Keep away from ... (incompatible materials to be indicated by the manufacturer).
Keep away from heat. Direct sunlight; Product is photosensitive.
Incompatibility (Materials to Avoid): Alkalis, Oxidizers, Reducing agents,
Hazardous Decomposition Products: Heavy Metals, NOx,
Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: orl-rat LD50 1173 mg/kg; orl-mouse LD50 50 mg/kg
Effects of Overexposure:
   Acute: See Section 2
   Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.
Conditions Aggravated by Overexposure: N/A
Target Organs: Reproductive systems, Gastrointestinal tract, Respiratory system, Central Nervous System,
Primary Route(s) of Entry: Inhalation, ingestion, eye or skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: D001, D011

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1493, Silver Nitrate: 5.1, II

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Chronic Fire Acute

Name List: Chemical Category:
Silver Nitrate - No Silver Nitrate - Silver

CERCLA Section 103 RQ(lb.): Silver Nitrate - 1 lb
RCRA Section 261.33: Silver Nitrate - No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary
ACGIH American Conference of Governmental Industrial Hygienists
CAS Number Chemical Services Abstract Number

Product Name: SILVER NITRATE