1 - Product Identification
   Synonyms: Nitric Silver Salt, Lunar Caustic
   CAS: 7761-88-8
   Formula Weight: 169.87 (63.5% Silver metal by weight)
   Chemical Formula: AgNO₃
   Reportable Quantity: 40, 100, 455 grams
   Supplier: Lessit Komet Chemi; www.silvernitrate.org 1(318)480-0084
   Distributed by: Thesetmaster Fulfillment LLC, P.O.Box 53555, Chicago IL 60653

2 - Composition
   Silver Nitrate: 99.9% min.
   Moisture: relative

3 - Hazards
   NFPA 704
   Health Rating: 3 – Elevated, causes eye and skin burns. Even small amounts will stain skin, Inhalation will cause burns to the upper respiratory track.
   Flammability Rating: 0 - None
   Reactivity Rating: 0 - Normally stable, even under fire exposure conditions, reactive with water.
   Lab Protective Equip: Safety goggles and/or face shield. Latex gloves. Good ventilation.
   Storage Color Code: Yellow (Reactive)

4 - First Aid Measures
   Inhalation: Remove to fresh air. Crystals will sting the nasal passages. Get medical attention as soon as possible.
   Ingestion: If swallowed, Do not induce vomiting. Give a quantity of milk or water containing table salt water. Get medical attention immediately if the quantity ingested is more than a gram.
   Skin Contact: Wash immediately with soap and water for at least 15 minutes. Stains usually vanish within a week. Stains on finger nails can be buffed away.
   Eye Contact: Get medical attention immediately. Immediately flush eyes with plenty of distilled water for at least 30 minutes. Tears will cause a film to form on the eye.

5 - Fire Fighting Measures
   Fire: Use an extinguishing agent suitable for surrounding fires.
   Heating: Wear SCBA (self-contained breathing apparatus) and protective gear as decomposition products are toxic and corrosive.
   Explosion: Reaction with ammonia will form explosive Fulminating Silver.

6 - Accidental Release Measures
   Wear protective equipment. Clean up in a way that doesn't disperse the crystals into the air. If it is released into water, add table salt.
   Special Note: Disposal of even small quantities of silver nitrate in waste systems connected to a septic tank is will to destroy septic enzymes which would require, flushing out and seeding with fresh enzymes.

7 - Handling and Storage
   Wear protective gear, latex gloves, goggles, and protect clothing from accidental spills. Do not store near combustible materials.
   Store in a closed container, keep in a dark and well-ventilated area.
   Silver Nitrate is not light sensitive al though impurities in the air will make cause sensitivity to light. Pure Silver Nitrate does not absorb moisture.
8 - Exposure Limits; Airborne
OSHA Permissible Exposure Limit (PEL): 0.01 mg/m³ (TWA) as silver metal dust
ACGIH Threshold Limit Value (TLV): 0.01 mg/m³ (TWA) as soluble silver compounds

9 - Physical and Chemical Properties
Appearance: Transparent white colored crystals.
Odor: Odorless.
Solubility: 2190g/1000ml water @ 20°C (70°F).
Specific Gravity: 4.35g/cc
pH: 6
Boiling Point: 441°C (824°F) Decomposes.
Melting Point: 212°C (414°F).
Vapor Density (Air=1): 4.4
Vapor Pressure (mm Hg): Not available.

10 - Stability and Reactivity
Stability: Stable at room temperature in sealed containers.
Hazardous Decomposition Products: Oxides of nitrogen.
Incompatibilities: Ammonia, reducing agents, alkali and alkaline metals
Conditions to Avoid: Do not allow solutions of Silver Nitrate and Ammonia to mix.

11 - Toxicological Information
CAS# 7761-88-8: Oral, mouse: LD₅₀ = 50mg/kg

14 - Transport Information
Domestic (Land, DOT)
Hazard Class: 5.1
Packing Group: II
UN number: UN1493
ORM-D: USPS can ship within United States only.
ORM-D Packaging instruction 5A: Consumer Commodity ORM-D AIR - the weight of the contents of the primary packing container cannot exceed 1 kg. USPS publication 52, Appendix C, 1999 page 291.
Outer Packaging: A strong outer packaging that is capable of firmly and securely holding the primary receptacle and cushioning material is required.
Mailability:
International Mail: Prohibited.
Domestic Mail: Permitted via air or surface transportation.

16 – Additional Information
MSDS Creation Date: 4/05/1997 Simplified version from the original MSDS Revision Date: 12/18/2012. The full MSDS is available for download on http://www.gholar.com/msds.html
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