

**MATERIAL SAFETY DATA SHEET
SILVER NITRATE**

Section 1 – Identification of Supplier

Product name: Silver Nitrate.
Shipping name: Silver Nitrate.

Suppliers details: Chemical Initiatives (Pty) Ltd
Address: AECI Place, Building 24, The Woodlands, Woodlands Drive, Woodmead, 2196, South Africa

Telephone number
+27 11 8068700

Emergency number
+27 11 608 3300

Section 2 – Hazard Identification

Precautionary statements:

Corrosive to skin and eyes.
Poisonous to swallow.
A reactive oxidising agent.

Section 3 – Composition / Information on Ingredients

Component	Concentration
Silver nitrate [Ag(NO) ₃]	Ca. 100 %

Section 4 – First Aid Measures

Inhalation: Remove patient from exposure, keep warm and at rest. Obtain medical attention.

Skin contact: Remove contaminated clothing. Wash skin with soap and water. Obtain medical attention.

Eye contact: Immediately irrigate with clean water, holding eyelids apart, for at least 20 minutes. Obtain medical attention.

Ingestion: Do not induce vomiting. Wash out mouth with water and give 200-300ml (half a pint) of water to drink. Obtain medical attention.

Further professional medical assistance: Symptomatic treatment and supportive therapy as indicated.

Section 5 – Fire Fighting Measures

Flash point: Not available.

Auto-ignition: Not available.

LEL: Not available.

UEL: Not available.

Fire: None-flammable.

Extinguishing media agent: Water. Oxidising agent may assist combustion.

Protective equipment: Self-contained breathing apparatus.

Exposure hazards from combustion: May decompose if heated, giving toxic oxides of nitrogen.

Section 6 – Accidental Release Measures

Personal protection: Wear gloves, dust mask and eye/face protection.

Environmental precaution: Do not empty into drains.

Methods for cleaning up: Shovel into clean, dry, labelled containers for recycling or disposal.

Section 7 – Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Wash hands before eating, drinking or smoking. Contaminated clothing should be cleaned.

Precautions for safe storage: Keep only in original container in a cool, dark, well ventilated place. Keep container tightly closed.

Section 8 - Exposure Controls and Personal Protection

Components:

TLV-TWA: 0.15 mg/m³ (soluble as Ag)

TLV-STEL: (ACGIH 92 to 93)

Wear chemical resistant gloves, eye/face protection and respirator if the dust levels are above the TLV-TWA.

Section 9 – Physical and Chemical Properties

Appearance:	Colourless, odourless crystalline powder.
Decomposition:	212 °C.
Density:	Highly soluble.
Solubility (water):	4.35 g/cm ³ .

Section 10 – Stability and Reactivity

Hazardous reaction and decomposition: Decomposition evolves toxic oxides of nitrogen. Incompatible with organic substances, strong reducing agents, ammonia.

Section 11 – Toxicology

Eye contact: May cause irritation and burns.

Skin contact: May cause irritation and burns.

Ingestion: May cause severe gastroenteritis that may be fatal.

Inhalation: May cause irritation to the respiratory tract.

Long term exposure: Long period absorption may cause argyria – greyish coloration of various tissues.

Section 12 – Ecological Information

Users should ensure that they comply with local, provincial and national environmental legislation.

Environmental fate and mobility: No information available.

Persistence, degradation, bio-accumulation: No information available.

Effect on effluent treatment: No information available.

Section 13 – Disposal Considerations

Disposal should be in accordance with local, provincial and national environmental legislation.

Section 14 - Transport

Hazchem code:	2X.
UN:	1493.
IMDG class:	5.1
Packing group:	II.



Section 15 – Regulatory Information

Users should ensure that they comply with relevant local, state or national legislation.

Risk and safety phrases EC directive 67/548/ECC (as lead compound)

Section 16 – Other Information

DISCLAIMER:

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Compiled by:

SHEQ Department, Chemical Initiatives (PTY) Ltd, Private Bag X21, Gallo Manor, Gauteng 2052, RSA

Tel. +27 11 806-8700, Fax +27 11 806-8979