

PEB218 – Silver Nitrate Solution – SAFETY DATA SHEET

Product Silver Nitrate Solutions
Version GHS Version 4
Date 19-07-17
Sheet No. S128
Supersedes DSK V3 dated 05-04-09

Section 1.0: Identification of the substance/ preparation and of the Company/ undertaking

Product Identifier: Silver Nitrate 0.1M

Other means of Identification: PEB218-05, PEB218-25, S1282

Uses: For laboratory use, analysis, research and fine chemistry.

Details of the supplier of the Safety Data Sheet

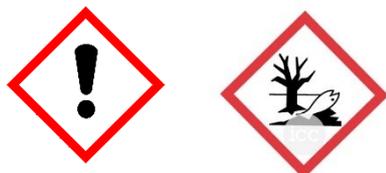
Company Name: Klipspringer Ltd

Address: Rynor House
Farthing Road
Ipswich
Suffolk
IP1 5AP

Telephone: +44 (0)1473 461800
Fax: +44 (0)1473 747200
Email: Sales@klipspringer.com
Website: www.Klipspringer.com
Emergency No. +44 (0)1449 722143

Section 2.0: Ingredients

GHS Label Elements



H315: Causes Skin Irritation
H319: Causes serious eye irritation
H410: Very toxic to aquatic life with long lasting effects
P273: Avoid release to the environment
P302+P352: If on skin: Wash with plenty of soap and water

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P305+ P351 + P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Section 3.0: Composition / information on ingredients

Silver Nitrate	CAS No. 7761-88-8	MF: AgNO ₃	REACH 01-2119513705-43- XXXX	1-2.5%
Water, Deionised	CAS No. 7732-18-5	MF: H ₂ O	REACH EXEMPT	BALANCE

Section 4.0 First-aid Measures

- 4.1 General indications
Never provide drink or induce vomiting in the event of loss of consciousness.
Remove contaminated clothing
- 4.2 Inhalation
If inhaled, remove to fresh air, if not breathing give artificial respiration. If breathing is difficult find oxygen.
- 4.3 Contact with skin
In case of contact, immediately wash skin with soap and copious amounts of water.
Remove and wash contaminated clothing promptly
- 4.4 Eyes
In case of contact, immediately flush eyes by separating the eyelids with fingers. Seek medical advice
- 4.5 Swallowing
If swallowed, wash out mouth with water provided person is conscious. Avoid vomiting. Call a physician.
- Discard contaminated clothing and shoes

Section 5.0: Fire Fighting Measures

- 5.1 Extinguishing media
As appropriate to the environment
- 5.2 Fire-fighting means which must not be used.
No specific data
- 5.3 Special risks
Emits toxic fumes under fire conditions
- 5.4 Protective Equipment
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6.0: Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Do not inhale the fumes, ensure adequate ventilation. Do not smoke.

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- 6.2 Environment precautions
Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.
- 6.3 Methods and materials for containment and clearing up
Cover with dry-lime, sand or soda ash. Place in covered containers and transport outdoors for disposal. Ventilate area and wash spill site after material pickup is complete. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
Evacuate area.

Section 7.0: Handling and Storage

- 7.1 Precautions for safe handling
No special requirements
- 7.2 Conditions for sale storage, including any incompatibilities
Keep tightly closed
Protect from light

Section 8.0: Exposure control/ Personal protection

- 8.1 Exposure Controls
Ensure good ventilation and renewal of air in the premises. Do not breathe vapour
- 8.2 Exposure limit control
TWA 0.01Mg/M³ (for solid)
- 8.3 Respiratory protection
In the event of fumes forming / aerosols, use suitable respiratory protection
- 8.4 Hand protection
Heavy rubber gloves
- 8.5 Eye / Face Protection
Chemical safety goggles
- 8.6 Individual hygiene measures
Remove contaminated clothing, use suitable work clothing. Wash hands and face before breaks and when the job is done.
- 8.7 Environment exposure controls
Avoid pollution of the soil, water supplies and drains. Rubber gloves
Safety shower and eye bath

Section 9.0: Physical and Chemical Properties

Appearance and odour

Clear colourless liquid	
Flashpoint	None
Vapour density	5.8
Specific gravity	1.015

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Section 10.0: Stability and Reactivity

- 10.1 Conditions to avoid
 - Adjacent sources of heat and temperatures
 - Exposure to light
- 10.2 Incompatible materials
 - Strong reducing agents
 - May decompose on exposure to light
 - Ammonia
 - Strong bases
 - Alcohols
 - Magnesium
 - Finely powdered metals
- 10.3 Hazardous decomposition products
 - Toxic fumes of: Nitrogen Oxides, Silver Oxides.
- 10.4 Chemical stability
 - Stable

Section 11.0: Toxicological information

- 11.1 Acute Toxicity
 - May be fatal if inhaled, swallowed, or absorbed through skin.
 - Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin.
 - Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.
 - Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.
 - May cause Argyria (a slate-grey or bluish discolouration of the skin and deep tissues due to the deposit of insoluble albuminate of silver).
- Chronic effects
 - Laboratory experiments have shown mutagenic effects.
 - To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
- RTECS No: VW4725000
 - Silver (I) Nitrate (1.1)
- Irritation data

Eye-RBT 1 Mg SEV	AROPAW 25,839,41
Eye-RBT 10 Mg MOD	TXAPA9 55,501,80
- Toxicity Data

UNR-MAN LDLO:29 Mg/Kg	85DCAO 2,73,70
ORL-MUS LD50:50 Mg/Kg	JPPMAB 2,20,50
IPR-MUS LD50:23783 µg/Kg	TXAPA9 63,461,82
- Target organ data
 - Behavioural (Somnolence)
 - Lungs, Thorax or respiration (Dyspnae)
 - Gastrointestinal (Hypermotility, Diarrhoea)
 - Paternal effects (Spermatogenesis)

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Effects on fertility (Male fertility index)

Only selected registry of toxic effects of chemical, substances

(RTECS) data is presented here. See actual entry in RTECS for complete information.

Section 12.0: Ecological information

- 12.1 Toxicity
Toxic to aquatic life
- 12.2 Persistence and degradability
Unlikely to persist
- 12.3 Bioaccumulative potential
Unlikely to bioaccumulate
- 12.4 Mobility in soil
Data not available
- 12.5 Assessment PDB and MPMB
Data not available
- 12.6 Other adverse effects
Don not allow it to ensure soils or water channels

Section 13.0: Disposal considerations

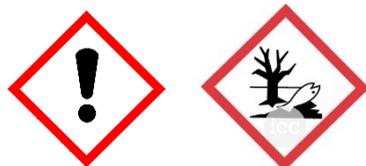
Use an authorised waste contractor
Observe all federal, state and local environmental regulations.

Section 14.0: Transport Information

Not restricted at this concentration

Section 15.0: Regulatory Information

GHS Label elements



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Section 16.0: Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Klipspringer and Surechem products shall not be held liable for any damage resulting from handling or from contract with the above product. See product guide for additional terms and conditions of sale.
 GHS version 4 NGT 19.07.17 replaces DSK version 3 dated 05-04-09 which replaced DSO version dated 17-12-03.
 Based on FAS, updated with CAERNAP/ASF.
 Updated in all sections for version 4 based on CAERNAP/ASF. Authorities.
 Disagree as to the hazard presented by the product at this concentration, hence not all MSDA will give the same information.

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