# Safety Data Sheet

# according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: June 11, 2019

Identification		
Product identifier		
Trade name: <u>Silver Nit</u> Product code: NC1739		
Recommended use ar Recommended use: L Restrictions on use: N		ble.
Details of the supple Manufacturer/Supplie AquaPhoenix Scientific, 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.c Distributor: Fisher Science Educatio 6771 Silver Crest Road Nazareth, PA 18064 (800) 955-1177	Inc. I m	eet
Emergency telephone ChemTel Inc. (800)255-3924 (North A +1 (813)248-0585 (Inter	nerica)	

# 2 Hazard(s) identification

### <sup>•</sup> Classification of the substance or mixture

The substance is not classified as hazardous according to the Globally Harmonized System (GHS).

- <sup>•</sup> Label elements
- · GHS label elements Not regulated.
- · Hazard pictograms: None.
- · Signal word: None
- · Hazard statements: None.
- · Precautionary statements: None.

· Other hazards There are no other hazards not otherwise classified that have been identified.

# **3** Composition/information on ingredients

# <sup>•</sup> Chemical characterization: Substances

· Componen	nts:		
7732-18-5	Water		99.52%
7761-88-8	silver nitrate	<ul> <li>Ox. Sol. 2, H272</li> <li>Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318</li> </ul>	0.48%
· Additional	information:		
		entity and/or exact percentage(s) are being withheld as a trade s	secret.
For the wor	ding of the listed Haza	rd Statements, refer to section 16.	

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# 4 First-aid measures

#### <sup>•</sup> Description of first aid measures

· General information: No special measures required.

• After inhalation: Supply fresh air; consult doctor in case of complaints.

#### · After skin contact:

Clean with water and soap.

If skin irritation is experienced, consult a doctor.

#### • After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### • After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting. Seek medical attention.

• Most important symptoms and effects, both acute and delayed:

May cause gastro-intestinal irritation if ingested.

Nausea in case of ingestion.

· Danger: No relevant information available.

· Indication of any immediate medical attention and special treatment needed:

If medical advice is needed, have product container or label at hand.

#### **5** Fire-fighting measures

#### <sup>·</sup> Extinguishing media

· Suitable extinguishing agents: Use fire fighting measures that suit the environment.

• For safety reasons unsuitable extinguishing agents: No relevant information available.

Special hazards arising from the substance or mixture

Substance/product is oxidizing when dry.

Formation of toxic gases is possible during heating or in case of fire.

#### Advice for firefighters

#### · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

## 6 Accidental release measures

## · Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

For large spills, wear protective clothing.

### Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

# Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

#### **Reference to other sections**

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# 7 Handling and storage

#### <sup>·</sup> Handling

- Precautions for safe handling:
- Avoid splashes or spray in enclosed areas.
- Use only in well ventilated areas.
- · Information about protection against explosions and fires: Substance/product is oxidizing when dry.

### · Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Unsuitable material for receptacle: aluminium.

- Information about storage in one common storage facility:
- Store away from foodstuffs.

Store away from oxidizing agents.

Do not store together with alkalis (caustic solutions).

Store away from metals.

• Further information about storage conditions: Keep containers tightly sealed.

· Specific end use(s) No relevant information available.

# 8 Exposure controls/personal protection

#### Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### • Exposure controls

#### · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Engineering controls: Provide adequate ventilation.
- Breathing equipment: Not required under normal conditions of use.
- Protection of hands:



Protective gloves

# Material of gloves

Butyl rubber, BR Natural rubber, NR Nitrile rubber, NBR Neoprene gloves

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Sensibilization by the components in the glove materials is possible.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

# • Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection: Protective work clothing

· Limitation and supervision of exposure into the environment No special requirements.

· Risk management measures No special requirements.

# **9** Physical and chemical properties

Information on basic physical a Appearance:	ind chemical properties	
Form:	Liquid	
Color:	Colorless	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	100-102 °C (212-215.6 °F)	
Flash point:	The product is not flammable.	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1.02 g/cm³ (8.51 lbs/gal)	
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wat	er): Not determined.	

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· Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	
Stability and reactivity		
• Reactivity: No relevant inform	ation available.	
	er normal temperatures and pressures.	
Thermal decomposition / con		
Avoid extreme heat.	tored according to specifications.	
<sup>•</sup> Possibility of hazardous re	actions	
Reacts with certain metals.		
Reacts with alkali (lyes).		
Substance/product is oxidizing		
Conditions to avoid Excess	heated above the decomposition point.	
· Incompatible materials	ive neal.	
Strong acids		
Alkalis.		
<sup>•</sup> Hazardous decomposition	products	
Under fire conditions only:		
Nitrogen oxides (NOx) Toxic metal oxide smoke		
Toxicological informatio	n	
Information on toxicologic	al effects	
· Acute toxicity:		
LD/LC50 values that are relev	ant for classification: None.	
• Primary irritant effect:	a data tha alaasification onitaria and not mat	
	e data, the classification criteria are not met. e data, the classification criteria are not met.	
· ( )n the ever Based on available		
	Die gata, the classification criteria are not met.	
· Sensitization: Based on availa		
	or Research on Cancer):	
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Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity): No relevant information available.
- Repeated dose toxicity: No relevant information available.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

# **12 Ecological information**

## · Toxicity

- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · **Bioaccumulative potential:** No relevant information available.
- Mobility in soil: No relevant information available.
- Additional ecological information

· General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- Harmful to aquatic organisms
- Other adverse effects No relevant information available.

# **13 Disposal considerations**

## <sup>·</sup> Waste treatment methods

## · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

## Uncleaned packagings

• **Recommendation:** Disposal must be made according to official regulations. • **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information		
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
<ul> <li><sup>.</sup> UN proper shipping name</li> <li><sup>.</sup> DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>	Not regulated.	
<sup>·</sup> Transport hazard class(es)		
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· DOT, ADR/RID/ADN, IMDG, IATA · Class	Not regulated.	
<ul> <li>Packing group</li> <li>DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>	Not regulated.	
· Environmental hazards	Not applicable.	
• Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	Il of Not applicable.	

# 15 Regulatory information

<ul> <li>Safety, health and environmental regulations/legislation specific for the substance mixture</li> <li>United States (USA)</li> <li>SARA</li> </ul>	ce or
· Section 302 (extremely hazardous substances):	
None of the ingredients are listed.	
· Section 355 (extremely hazardous substances):	
None of the ingredients are listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients are listed.	
· TSCA (Toxic Substances Control Act)	
7761-88-8 silver nitrate	
7732-18-5 Water	
· Proposition 65 (California)	
· Chemicals known to cause cancer:	
None of the ingredients are listed.	
· Chemicals known to cause developmental toxicity for females:	
None of the ingredients are listed.	
· Chemicals known to cause developmental toxicity for males:	
None of the ingredients are listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
· EPA (Environmental Protection Agency):	
None of the ingredients are listed.	
· IARC (International Agency for Research on Cancer):	
None of the ingredients are listed.	
· Canadian Domestic Substances List (DSL):	
None of the ingredients are listed.	

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## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Ox. Sol. 2: Oxidizing solids - Category 2 Met. Corr.1: Corrosive to metals - Category 1 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 · Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com