

# Silver Nitrate 0.1N

#### **SECTION 1. IDENTIFICATION**

Product Identifier	Silver Nitrate 0.1N
Other Means of Identification	Silver Mononitrate
Product Code(s)	SI5190E
Product Family	Inorganic solution
Recommended Use	Laboratory and industrial use.
<b>Restrictions on Use</b>	None known.
Supplier Identifier	Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995
Emergency Phone No.	CANUTEC CANADA, 613-996-6666, 24 Hours
SDS No.	0177

## **SECTION 2. HAZARD IDENTIFICATION**

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

#### Classification

Acute toxicity (Oral) - Category 4 Label Elements



Signal Word: Warning

Hazard Statement(s): Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

Precautionary Statement(s): Wash hands thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing. Wear eye protection/face protection. IF ON SKIN: Wash with plenty of water/ If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Water	7732-18-5	98.3	Dihydrogen Oxide	
Silver nitrate	7761-88-8	1.7	Silver Mononitrate	

## SECTION 4. FIRST-AID MEASURES

#### **First-aid Measures**

#### Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor.

#### Skin Contact

Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation occurs, get medical advice or attention.

#### **Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Immediately call a Poison Centre or doctor. Specific treatment is required.

#### Ingestion

Do not induce vomiting. Rinse mouth with water. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the Poison Centre or doctor.

#### **First-aid Comments**

Some of the first-aid procedures recommended here require advanced first-aid training. If exposed or concerned, get medical advice or attention.

#### Most Important Symptoms and Effects, Acute and Delayed

None known.

#### Immediate Medical Attention and Special Treatment

#### Special Instructions

General advice, consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## **SECTION 5. FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

#### Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

#### Unsuitable Extinguishing Media

Do not use a solid (straight) water stream as it may scatter and spread fire.

#### **Specific Hazards Arising from the Product**

Closed containers may rupture violently when heated releasing contents.

In a fire, the following hazardous materials may be generated: corrosive, oxidizing nitrogen oxides.

#### Special Protective Equipment and Precautions for Fire-fighters

Evacuate area. Fight fire from a protected, explosion-resistant location or maximum distance possible. Approach fire from upwind to avoid hazardous vapours or gases. For a massive fire, immediately evacuate the area and use

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

#### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment.

#### **Environmental Precautions**

No special precautions are necessary. It is good practice to prevent releases into the environment.

#### Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

## **SECTION 7. HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

Prevent accidental contact with incompatible chemicals. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

#### **Conditions for Safe Storage**

Store in an area that is: dry, temperature-controlled.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

	ACGIH	H TLV® OSHA PEL		PEL	AIHA WEEL	
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Silver nitrate	0.01 mg/m3		0.01 mg/m3			
Water	Not established		Not established			

Exposure guidelines (both ACGIH and OSHA) for water not established.

#### Appropriate Engineering Controls

Provide eyewash and safety shower if contact or splash hazard exists.

#### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

#### **Respiratory Protection**

Not normally required if product is used as directed.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

#### **Basic Physical and Chemical Properties**

Appearance	Clear colourless liquid.
Odour	Odourless
Odour Threshold	Not available
рН	Not available
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available

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Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1
Solubility	Soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information Physical State	Liquid

## SECTION 10. STABILITY AND REACTIVITY

## Reactivity

Not reactive under normal conditions of use. **Chemical Stability** Normally stable. **Possibility of Hazardous Reactions** None known. **Conditions to Avoid** Heat. Light. Generation of dust. Sunlight. High temperatures. **Incompatible Materials** Strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide). **Hazardous Decomposition Products** 

Very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides.

## SECTION 11. TOXICOLOGICAL INFORMATION

#### Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

#### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Silver nitrate	Not available	1173 mg/kg (rat)	Not available
Water	Not available	> 89840 mg/kg (rat)	Not available

#### **Skin Corrosion/Irritation**

Human experience shows mild irritation.

#### Serious Eye Damage/Irritation

Human experience shows serious eye damage.

#### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May cause nose and throat irritation.

#### Skin Absorption

No information was located.

#### Ingestion

Severe irritation or burns to the mouth, throat and stomach. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

#### **Aspiration Hazard**

No information was located.

#### STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

#### **Respiratory and/or Skin Sensitization**

No information was located.

#### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Silver nitrate	Not Listed	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed	Not Listed

#### **Reproductive Toxicity**

Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

## Effects on or via Lactation

No information was located.

#### Germ Cell Mutagenicity

No information was located.

#### Interactive Effects

No information was located.

## **SECTION 12. ECOLOGICAL INFORMATION**

This section is not required by WHMIS. This section is not required by OSHA HCS 2012.

## SECTION 13. DISPOSAL CONSIDERATIONS

## **Disposal Methods**

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

## **SECTION 14. TRANSPORT INFORMATION**

Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Special Precautions Not applicable

#### Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15. REGULATORY INFORMATION**

# Safety, Health and Environmental Regulations Canada

## Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

#### USA

## Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

## **SECTION 16. OTHER INFORMATION**

SDS Prepared By	Alphachem Limited
Phone No.	(905)-821-2995
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Date of Last Revision	January 31, 2018
<b>Revision Indicators</b>	The following SDS content was changed on February 07, 2018: SECTION 11. TOXICOLOGICAL INFORMATION; LC50/LD50 values.
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
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