1. IDENTIFICATION

Product code: S-163
Product Name: SILVER NITRATE, 0.1 N STANDARDIZED SOLUTION

Other means of identification
Synonyms: No information available
CAS #: Mixture
RTECS #: Not available
CI#: Not available

Recommended use of the chemical and restrictions on use
Recommended use: Laboratory reagent. Standardized solution.
Uses advised against: No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Label elements
Hazard statements
Causes skin irritation
Causes serious eye irritation
Causes damage to organs through prolonged or repeated exposure

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not breathe dust/fume/gas/mist/vapors/spray
Do not eat, drink or smoke when using this product
Wear protective gloves
Wear eye/face protection

Precautionary Statements - Response
Specific treatment (see .? on this label)
Get medical advice/attention if you feel unwell
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>98.3</td>
<td>*</td>
</tr>
<tr>
<td>Silver Nitrate</td>
<td>7761-88-8</td>
<td>1.7</td>
<td>*</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126).

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

Product code: S-163  Product name: SILVER NITRATE, 0.1 N STANDARDIZED SOLUTION
Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**
- Causes serious eye irritation.
- Causes skin irritation.
- May cause irritation of respiratory tract.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically

**Protection of first-aiders**

**First-Aid Providers:** Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:**

The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

**Unsuitable Extinguishing Media:**

No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:**

No information available.

**Specific hazards:**

- Non-explosive in presence of open flames and sparks, of shocks
- Silver nitrate mixed with dry powdered magnesium may ignite explosively on contact with a drop of water.
- An explosive fulminate may be formed if silver nitrate is mixed with alcohols.
- Highly explosive is formed by the addition of calcium carbide to silver nitrate solution

**Special Protective Actions for Firefighters**

**Specific Methods:**

No information available.

**Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**Product code:** S-163 **Product name:** SILVER NITRATE, 0.1 N STANDARDIZED SOLUTION
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container.

Methods for cleaning up Neutralize the residue with a dilute solution of sodium carbonate. Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. Do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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<tr>
<td>Silver Nitrate 7761-88-8</td>
<td>None</td>
<td>None</td>
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Canada

<table>
<thead>
<tr>
<th>Components</th>
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Product code: S-163  Product name: SILVER NITRATE, 0.1 N STANDARDIZED SOLUTION
### Australia and Mexico

<table>
<thead>
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<th>Mexico</th>
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</thead>
<tbody>
<tr>
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<td>None</td>
</tr>
<tr>
<td>Silver Nitrate 7761-88-8</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**

**Engineering measures to reduce exposure:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

- **Eye protection:** Goggles
- **Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.
- **Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
- **Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**
9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid.

**Odor:** Odorless.

**Formula:** No information available

**Flashpoint (°C/°F):** No information available.

**Autoignition Temperature (°C/°F):** No information available.

**Bulk density:** No information available.

**Density (g/cm³):** No information available.

**VOC content (g/L):** No information available.

**Viscosity:** No information available.

**Appearance:** No information available.

**Taste:** No information available.

**Flammability:** No information available.

**Flash Point Tested according to:** Not available.

**Upper Explosion Limit (%):** No information available.

**Boiling point/range(°C/°F):** 100°C/212°F (water)

**Specific gravity:** Weighted average: 1.01

**Evaporation rate:** No information available

**Odor threshold (ppm):** No information available

**Partition coefficient (n-octanol/water):** No information available

**Miscibility:** No information available

**Solubility:** Easily soluble in cold water. Easily soluble in hot water. Soluble in diethyl ether. Very slightly soluble in acetone

**Color:** Clear. Colorless.

**Molecular/Formula weight:** No information available

**Flash point (°C):** No data available

**Lower Explosion Limit (%):** No information available

**pH:** Acidic

**Decomposition temperature(°C/°F):** No information available

**Vapor pressure @ 20°C (kPa):** 2.3 (Water)

**Vapor density:** 0.62 (Air = 1) (Water)

**Flammability:** No information available

**Odor:** Odorless.

**Melting point/range(°C/°F):** No information available

**Boiling point/range(°C/°F):** 100°C/212°F (water)

**Density (g/cm³):** No information available

**Flammable:** No information available

**Upper Explosion Limit (%):** No information available

**Boiling point/range(°C/°F):** 100°C/212°F (water)

**Specific gravity:** Weighted average: 1.01

**Evaporation rate:** No information available

**Odor threshold (ppm):** No information available

**Partition coefficient (n-octanol/water):** No information available

**Miscibility:** No information available

**Solubility:** Easily soluble in cold water. Easily soluble in hot water. Soluble in diethyl ether. Very slightly soluble in acetone

10. STABILITY AND REACTIVITY

**Reactivity**
Slightly reactive with reducing agents, combustible materials, organic materials, alkalis

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Incompatible materials.


**Hazardous decomposition products:** No information available

**Other Information**

**Corrosivity:** Non-corrosive in the presence of glass

**Special Remarks on Corrosivity:** No information available

Product code: S-163  Product name: SILVER NITRATE, 0.1 N STANDARDIZED SOLUTION
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Skin, Eyes, Ingestion.

Acute Toxicity

Component Information

Water - 7732-18-5
LD50/oral/rat = > 90 mL/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rat = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Silver Nitrate - 7761-88-8
LD50/oral/rat = 1173 mg/kg Oral LD50 Rat
LD50/oral/mouse = 50 mg/kg
LD50/dermal/rat = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation. It may cause dermatitis. It may be absorbed through the skin.

Product code: S-163

Product name: SILVER NITRATE, 0.1 N STANDARDIZED SOLUTION
Eye Contact:
Causes eye irritation. May cause conjunctivitis.

Inhalation
Causes respiratory tract and mucous membrane irritation. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting.

Ingestion
Can cause digestive/gastrointestinal tract irritation. Symptoms may include irritation in the mouth, abdominal pain, a blackening of the skin and mucous membranes, salivation, vomiting of black material, diarrhea, hypermotility, ulcerative gingivitis. May affect kidneys (lesions of kidneys, anuria, ), lungs (lesions of lungs). Other symptoms of acute silver poisoning may include shock, dizziness, tetany, somnolence, vertigo, coma, convulsions), cardiovascular (fall in blood pressure), respiration (decreased respiration, cyanosis).

Aspiration hazard
No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity
* Chronic exposure to Silver nitrate dust or fumes can gradually cause the eyes, nails, inner nose, throat, body organs and skin to bluish-grayish color. This usually takes 2 to 20 years to develop and is permanent.
* Systemic absorption of the nitrate and reduction to nitrite may cause rare methemoglobinemia which is characterized by chocolate -brown colored blood, headache, weakness, dizziness, shortness of breath, cyanosis (bluish skin due to deficient oxygenation of blood), rapid heart rate. Eyes and Skin: Repeated or prolonged application on the skin or eyes causes argyria, a bluish-grayish discoloration of the skin and eyes.

Ingestion: Prolonged or repeated ingestion causes argyria characterized by a permanent blue-slate gray discoloration of the skin, eyes, mucous membranes, and internal organs. Prolonged or repeated ingestion may also affect the liver (hepatitis), kidneys (nephritis), cardiovascular system, behavior/central nervous system (symptoms similar to acute ingestion), and metabolism (weight loss)

Inhalation: Prolonged or repeated inhalation can cause bronchitis. It can also cause argyrosis of the respiratory tract, bluish-grayish/blackening of the mucous membranes of the respiratory tract with nasal mucosa showing impregnation of silver nitrate. It may also affect the cardiovascular system, and blood.

Sensitization:
No information available

Mutagenic Effects:
May affect genetic material

Carcinogenic effects:
May cause cancer based on animal test data.

<table>
<thead>
<tr>
<th>Components</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
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</thead>
<tbody>
<tr>
<td>Water</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Silver Nitrate</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Reproductive toxicity
No data is available

Reproductive Effects:
May cause adverse reproductive effects

Developmental Effects:
No information available

Teratogenic Effects:
No information available

Specific Target Organ Toxicity

Product code: S-163
Product name: SILVER NITRATE, 0.1
N STANDARDIZED SOLUTION
STOT - single exposure  
No information available

STOT - repeated exposure  
Causes damage to organs through prolonged or repeated exposure. Mucous Membrane. Skin. Eyes.

Target Organs:  
Mucous membrane. Skin. Eyes.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:  
Aquatic environment.

Silver Nitrate - 7761-88-8

Freshwater Fish Species Data:
- 0.001339 - 0.001637 mg/L LC50 Oncorhynchus mykiss 96 h flow-through
- 0.00181 - 0.00214 mg/L LC50 Pimephales promelas 96 h static
- 0.00452 - 0.00638 mg/L LC50 Pimephales promelas 96 h flow-through
- 0.00512 - 0.00787 mg/L LC50 Poecilia reticulata 96 h semi-static
- 0.0064 - 0.0106 mg/L LC50 Pimephales promelas 96 h semi-static
- 0.00839 - 0.1802 mg/L LC50 Oncorhynchus mykiss 96 h static
- 0.009 - 0.02 mg/L LC50 Lepomis macrochirus 96 h flow-through
- 0.0242 - 0.0484 mg/L LC50 Lepomis macrochirus 96 h semi-static
- 0.05 - 0.07 mg/L LC50 Lepomis macrochirus 96 h static
- 0.0027 mg/L LC50 Cyprinus carpio 96 h semi-static
- 0.0075 mg/L LC50 Oncorhynchus mykiss 96 h semi-static
- 0.009 mg/L LC50 Pimephales promelas 96 h

Water Flea Data:
- 0.0008 - 0.001 mg/L EC50 Daphnia magna 48 h
- 0.0008 - 0.0011 mg/L EC50 Daphnia magna 48 h
- 0.0006 mg/L EC50 Daphnia magna 48 h

Persistence and degradability:  
No information available

Bioaccumulative potential:  
No information available

Mobility:  
No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
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<tr>
<td>Silver Nitrate</td>
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<td>None</td>
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</table>

14. TRANSPORT INFORMATION

DOT

Product code: S-163  
Product name: SILVER NITRATE, 0.1
N STANDARDIZED SOLUTION
<table>
<thead>
<tr>
<th><strong>14. TRANSPORT INFORMATION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UN-No:</strong> Not Regulated</td>
</tr>
<tr>
<td><strong>Proper Shipping Name:</strong> No information available</td>
</tr>
<tr>
<td><strong>Hazard Class:</strong> No information available</td>
</tr>
<tr>
<td><strong>Subsidiary Risk:</strong> No information available</td>
</tr>
<tr>
<td><strong>Packing Group:</strong> None</td>
</tr>
<tr>
<td><strong>ERG No:</strong> No information available</td>
</tr>
<tr>
<td><strong>Marine Pollutant:</strong> No data available</td>
</tr>
<tr>
<td><strong>DOT RQ (lbs):</strong> No information available</td>
</tr>
</tbody>
</table>

**TDG (Canada)**
| **UN-No:** Not Regulated |
| **Proper Shipping Name:** No information available |
| **Hazard Class:** No information available |
| **Subsidiary Risk:** No information available |
| **Packing Group:** No information available |
| **Description:** No information available |

**ADR**
| **UN-No:** Not Regulated |
| **Proper Shipping Name:** No information available |
| **Hazard Class:** No information available |
| **Subsidiary Risk:** No information available |
| **Packing Group:** No information available |
| **Classification Code:** No information available |
| **Description:** No information available |
| **CEFIC Tremcard No:** No information available |

**IMO / IMDG**
| **UN-No:** Not Regulated |
| **Proper Shipping Name:** No information available |
| **Hazard Class:** No information available |
| **Subsidiary Risk:** No information available |
| **Packing Group:** No information available |
| **Description:** No information available |
| **IMDG Page:** No information available |
| **Marine Pollutant:** No information available |
| **MFAG:** No information available |
| **Maximum Quantity:** No information available |

**RID**
| **UN-No:** Not Regulated |
| **Proper Shipping Name:** No information available |
| **Hazard Class:** No information available |
| **Subsidiary Risk:** No information available |
| **Packing Group:** No information available |
| **Classification Code:** No information available |
| **Description:** No information available |

**ICAO**
| **UN-No:** Not Regulated |
| **Proper Shipping Name:** No information available |
| **Hazard Class:** No information available |
| **Subsidiary Risk:** No information available |
| **Packing Group:** No information available |
| **Description:** No information available |

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**Product code:** S-163  
**Product name:** SILVER NITRATE, 0.1 N STANDARDIZED SOLUTION
14. TRANSPORT INFORMATION

IATA

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15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tbody>
<tr>
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<td>Present KE-35400</td>
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<td>Present</td>
<td>Present 231-791-2</td>
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<td>Silver Nitrate</td>
<td>Present</td>
<td>Present KE-31281</td>
<td>Present</td>
<td>Present (1)-8</td>
<td>Present</td>
<td>Present</td>
<td>Present 231-853-9</td>
</tr>
</tbody>
</table>

U.S. Regulations

Silver Nitrate

- **Massachusetts RTK**: Present
- **New Jersey RTK Hazardous Substance List**: 1672
- **New Jersey - Discharge Prevention - List of Hazardous Substances**: Present
- **Pennsylvania RTK**: Environmental hazard
- **Pennsylvania RTK - Environmental Hazard List Present**
- **New York Release Reporting - List of Hazardous Substances**: 1 lb RQ
- **Louisiana Reportable Quantity List for Pollutants**: 1lb final RQ
- **California Directors List of Hazardous Substances**: Present


**Chemicals Known to the State of California to Cause Cancer:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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<td>Silver Nitrate</td>
<td>Not Listed</td>
<td>Not Listed</td>
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</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<td>0.454 kg final RQ</td>
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U.S. TSCA

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<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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<tbody>
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</table>
Components TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) TSCA 8(d) - Health and Safety Reporting
Silver Nitrate Not Applicable Not Applicable

Canada

WHMIS hazard class:
E  Corrosive material

Water

Uncontrolled product according to WHMIS classification criteria

Silver Nitrate

C  E
E 1.7% (0.1N), 3.4% (0.2 N)

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components WHMIS Ingredient Disclosure List -
Silver Nitrate 1 %

Inventory

Components Canada (DSL) Canada (NDSL)
Water Present Not Listed
Silver Nitrate Present Not Listed

Components CEPA Schedule I - Toxic Substances CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Water Not listed Not listed
Silver Nitrate Not listed Not listed

EU Classification

R-phrase(s)
R34 - Causes burns.
R8 - Contact with combustible material may cause fire.
R50 - Very toxic to aquatic organisms.
R51 - Toxic to aquatic organisms.
R52 - Harmful to aquatic organisms.
R53 - May cause long-term adverse effects in the aquatic environment.

S-phrase(s)
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S60 - This material and its container must be disposed of as hazardous waste.
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
S1/2 - Keep locked up and out of the reach of children.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Product code: S-163 Product name: SILVER NITRATE, 0.1 N STANDARDIZED SOLUTION
The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**
Xi - Irritant.

16. OTHER INFORMATION

**Preparation Date:** 08/05/2015  
**Revision Date:** 08/05/2015  
**Prepared by:** Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet