

SAFETY DATA SHEET

Preparation Date: 07/09/2015

Revision date 5/30/2019

Revision Number: G3

1. IDENTIFICATION

Product identifier

Product code: SI115
Product Name: SILVER NITRATE, CRYSTAL, USP

Other means of identification

Synonyms: Argenti nitras
 Argerol
 Lunar caustic
 Nitrate d'argent [French]
 Nitrato de plata [Spanish]
 Nitric acid silver(I) salt
 Nitric acid, silver(1+) salt
 Silbernitrat
 Silver mononitrate
 UN1493

CAS #: 7761-88-8
RTECS # VW4725000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: In photography. Manufacture of mirrors; other silver salts; silver plating; in sympathetic and indelible inks; dyeing hair; coloring porcelain; etching ivory; chemical intermediate for silver halides-eg, silver bromide and chloride, silver oxide and silver cyanide; catalyst-eg, for conversion of methanol to formaldehyde; analytical reagent in volhard titration; static inhibitor for carpets and woven materials; absorber of iodine; waste fission product; water disinfectant in pools; color restorer in metallic hair dyes; agent in manufacture of electronic pastes used in inks; chemical intermediate for silver aluminosilicates; in pencils or cones molded with potassium nitrate; catalyst for ethylene oxide; germicide; fused form to cauterize wounds; strong oxidizing agent; as a bacteriostat to destroy animal pathogenic bacteria; medication; pharmaceutical use for preparation of other therapeutic silver salts.

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: Tom Tyner (USA - West Coast)

Contact Person: Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

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


Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (repeated exposure)	Category 1
Oxidizing solids	Category 2

Label elements

Danger

Hazard statements
Harmful if swallowed
Causes severe skin burns and eye damage
Causes damage to organs through prolonged or repeated exposure
May intensify fire; oxidizer



The image displays four GHS hazard pictograms arranged in two rows. The top row contains a single pictogram (051) showing liquid dripping from test tubes onto a hand and a surface. The bottom row contains three pictograms: 009 (a silhouette of a person with a starburst on the chest), 022 (a flame over a circle), and 005 (an exclamation mark).

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust
Wear protective gloves/protective clothing/eye protection/face protection
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep/Store away from clothing and other combustible materials
Take any precaution to avoid mixing with combustibles

Precautionary Statements - Response

Immediately call a POISON CENTER or physician

IN CASE OF FIRE: Use water to extinguish. Do not use dry chemicals or foams. CO₂ or Halon may provide limited control.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell
Rinse mouth
Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Silver Nitrate	7761-88-8	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

Eye Contact: Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Immediate medical attention is required.

Ingestion: Harmful if swallowed. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms
Severe skin irritation
Causes severe skin burns
Skin contact can produce inflammation and blistering
Severe eye irritation
Causes serious eye damage
May cause corneal injury
May cause blindness
Exposure to nitrites/nitrates can cause gastroenteritis, abdominal pain, nausea, vomiting, diarrhea, metabolic acidosis, purging, methemoglobinemia, cyanosis, muscle weakness, dizziness, lightheadedness, loss of coordination, fatigue, headache, seizures, convulsions, dyspnea, dysrhythmias, coma, and death. Can affect the liver, metabolism (weight loss), blood (methemoglobinemia), cardiovascular system (bradycardia/tachycardia, hypotension, vasodilation, irregular heartbeat), kidneys
Prolonged or repeated ingestion or inhalation of dust causes argyria characterized by a permanent blue-slate gray discoloration of the skin, eyes, mucous membranes, and internal organs. Repeated or prolonged application on the skin or eyes causes argyria, a blue-gray discoloration of the skin and eyes
Irritating to respiratory system
May cause chemical burns to the respiratory tract

May cause dizziness
May cause headache
May cause nausea and vomiting

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:

Water. CO2 may be of no value in extinguishing fires involving oxidizers and may only provide limited control.

Unsuitable Extinguishing Media:

Dry chemical. Foam. Halons.

Specific hazards arising from the chemical

Hazardous combustion products

Silver oxides. Nitrogen oxides

Hazardous combustion products

No information available.

Specific hazards

Oxidizer. Keep away from combustible materials (wood, paper, oil, clothing, etc.). The product is not flammable, but it may cause fire when in contact with other material. Contact with combustible or organic materials may cause fire. Will accelerate burning when involved in a fire. Container explosion may occur under fire conditions or when heated. 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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid dust formation. Remove all sources of ignition. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled material.

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. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean up spill. 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. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe vapors/dust. Do not ingest. Do not smoke. Keep away from combustible material. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Sensitive to light. Store in light-resistant containers. Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials. Do not store near combustible materials. Store in a segregated and approved area.

Incompatible Materials:

Acetylene
Ammonia
Combustible materials
Chlorosulfonic acid
Hydrochloric acid
Sulfuric acid
Nitric acid
Metals
Reducing agents
Ethylene oxide
Charcoal
ammonium hydroxide
Ethanol solution
Arsenic
Sulfur

Alkalis
Organic materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Silver Nitrate	7761-88-8	None	None	None	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Silver Nitrate	7761-88-8	0.01 mg/m ³ TWA (as Ag)	0.01 mg/m ³ TWA (as Ag) 0.03 mg/m ³ STEL (as Ag)	0.01 mg/m ³ TWA (as Ag)	0.01 mg/m ³ TWAEV (as Ag)

Australia and Mexico

Component	CAS No	Australia	Mexico
Silver Nitrate	7761-88-8	0.01 mg/m ³ TWA (as Ag)	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

- Eye protection:** Goggles
- Skin and body protection:** Chemical resistant apron
Long sleeved clothing
Gloves
- Respiratory protection:** Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. 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

Physical state: Solid	Appearance: Crystals.	Color: Colorless. White.
Odor: Odorless.	Taste Bitter. Metallic.	Formula AgNO ₃
Molecular/Formula weight (g/mole): 169.87	Flammability (solid, gas) Oxidizer	Flashpoint (°C/°F): No information available
Flash Point Tested according to: Not available	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): No information available
Upper Explosion Limit (%): No information available	Melting point/range(°C/°F): 212°C/ 413.6°F	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): 440°C/ 824°F	Bulk density: No information available	Density (g/cm³): No information available
Specific gravity: 4.35	pH 6-7	Vapor pressure @ 20°C (kPa): No information available
Evaporation rate: No information available	Vapor density: 5.8	VOC content (g/L): No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available	Viscosity: 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 Solubility in water: 122 g/100 ml water @ 0°C Solubility in water: 952 g/100 ml water @ 190°C Solubility in alcohol: 1 g/30 ml alcohol; 1g/6.5 ml boiling alcohol Solubility in acetone: 1 g/253 ml acetone	

10. STABILITY AND REACTIVITY

Reactivity

Strong oxidizer. Reactive with reducing agent, combustible materials, organic materials, metals, acids, alkalis
Incompatible with antimony salts, arsenites, bromides, carbonates, chlorides, iodides, thiocyanates, ferrous salts, hypophosphites, morphine salts, oils, creosote, phosphates, tannic acid, tartrates, vegetable decoctions, and extracts, sodium hydroxide, charcoal, thimerosal, benzalkonium chloride, halogenated acids and their salts. alcohols. Silver nitrate reacts with acetylene in presence of ammonia to form silver acetylide, a sensitive powerful detonator when dry. Reaction between silver nitrate and chlorosulfonic acid is violent. Silver nitrate is reduced by hydrogen sulfide in the dark. Silver nitrate is easily reduced to metallic silver by ferrous salts, arsenites, hypophosphites, tartrates, sugars, tannins, volatile oils
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

Chemical stability

Stability: Sensitive to light. Exposure to light accelerates decomposition. Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Incompatible materials. Exposure to light.

Incompatible Materials: Acetylene
Ammonia
Combustible materials
Chlorosulfonic acid
Hydrochloric acid
Sulfuric acid
Nitric acid
Metals
Reducing agents
Ethylene oxide
Charcoal
ammonium hydroxide
Ethanol solution
Arsenic
Sulfur
Alkalis
Organic materials

Hazardous decomposition products: Silver oxides. Nitrogen oxides (NOx).

Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Skin. Eyes. Inhalation. Ingestion.

Acute Toxicity

Component Information

Silver Nitrate	
CAS No	7761-88-8

LD50/oral/rat = 1173 mg/kg Oral LD50 Rat
LD50/oral/mouse = 50 mg/kg oral LD50 mouse
LD50/dermal/rabbit = No information available
LD50/dermal/rat = 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 =

Product code: SI115

Product name: SILVER NITRATE,
CRYSTAL, USP

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Value - Acute Toxicity = 1173 mg/kg

LD50/oral/mouse =

Value - Acute Tox = 50 mg/kg

LD50/dermal/rabbit

Value - Acute Toxicity = No information available

LD50/dermal/rat

VALUE - Acute Tox = 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: Contact causes severe skin irritation and possible burns. It may cause dermatitis. It can be absorbed through the skin.

Eye Contact: Causes severe irritation and burns. Causes corneal opacification, bleeding conjunctiva, burns of conjunctiva, blindness.

Inhalation Causes severe irritation of the respiratory tract and mucous membranes with possible chemical burns. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath. May cause dizziness and headache. May cause nausea, vomiting. High levels may reduce the body's ability to transport oxygen (methemoglobinemia) causing headache, fatigue, dizziness and a pale blue color to the skin and lips (cyanosis).

Ingestion Causes severe digestive/gastrointestinal tract irritation and can cause burns. Symptoms may include pain and burning in the mouth, violent abdominal pain, blue-gray or blackish discoloration of the skin and mucous membranes, throat and abdomen, 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 nitrate 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 turn a 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 based on animal test data

Carcinogenic effects: IARC group 2A - Listed under Nitrate or Nitrite (ingested) under conditions that result in endogenous nitrosation.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Silver Nitrate	7761-88-8	Group 2A - Probably carcinogenic to humans - Monograph 94 [2010] (covers ingested nitrates under conditions that result in endogenous nitrosation)(for nitrates)	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

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

STOT - single exposure No information available.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Target Organs: Mucous membrane. Skin. Eyes. Lungs.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Silver Nitrate - 7761-88-8

Fish 0.00512 - 0.00787 mg/L LC50 *Poecilia reticulata* 96 h semi-static 1 0.009 - 0.02

mg/L LC50 Lepomis macrochirus 96 h flow-through 1 0.0242 - 0.0484 mg/L LC50 Lepomis macrochirus 96 h semi-static 1 0.05 - 0.07 mg/L LC50 Lepomis macrochirus 96 h static 1 0.001339 - 0.001637 mg/L LC50 Oncorhynchus mykiss 96 h flow-through 1 0.0075 mg/L LC50 Oncorhynchus mykiss 96 h semi-static 1 0.00839 - 0.1802 mg/L LC50 Oncorhynchus mykiss 96 h static 1 0.00452 - 0.00638 mg/L LC50 Pimephales promelas 96 h flow-through 1 0.00181 - 0.00214 mg/L LC50 Pimephales promelas 96 h static 1 0.0064 - 0.0106 mg/L LC50 Pimephales promelas 96 h semi-static 1 0.009 mg/L LC50 Pimephales promelas 96 h 1 0.0027 mg/L LC50 Cyprinus carpio 96 h semi-static 1 0.0006 mg/L EC50 Daphnia magna 48 h 0.0008 - 0.001 mg/L EC50 Daphnia magna 48 h 0.0008 - 0.0011 mg/L EC50 Daphnia magna 48 h

Crustacea

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soil No information available

Other adverse effects 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

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Silver Nitrate	7761-88-8	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN1493
Proper Shipping Name: Silver nitrate
Hazard Class 5.1
Subsidiary Class No information available
Packing group: II
Emergency Response Guide Number 140
Marine Pollutant Severe Marine Pollutant
DOT RQ (lbs): No information available
Special Provisions IB8, IP2, IP4, T3, TP33
Symbol(s): [DOT]: (R1) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 1 pound (0.454 Kilograms).
Description: UN1493, Silver nitrate, 5.1, II

TDG (Canada)

UN-No: UN1493
Proper Shipping Name: Silver nitrate
Hazard Class 5.1
Subsidiary Risk: No information available
Packing Group: II

Marine Pollutant Description: No Information available
UN1493, Silver nitrate, 5.1, II

ADR

UN Number: UN1493
Proper Shipping Name: Silver nitrate
Transport hazard class(es): 5.1
Packing group: II
Subsidiary Risk: No information available
Description: UN1493, Silver nitrate, 5.1, II, ENVIRONMENTALLY HAZARDOUS

IMDG

UN-No: UN1493
Proper Shipping Name: Silver nitrate
Hazard Class: 5.1
Subsidiary Risk: No information available
Packing Group: II
Marine Pollutant: No information available
EMS: F-A
Description: UN1493, Silver nitrate, 5.1, II, Marine pollutant

RID

UN Number: UN1493
Proper Shipping Name: Silver nitrate
Transport hazard class(es): 5.1
Subsidiary Risk: No information available
Packing group: II
Description: UN1493, Silver nitrate, 5.1, II, ENVIRONMENTALLY HAZARDOUS

ICAO (air)

UN-No: UN1493
Proper Shipping Name: Silver nitrate
Hazard Class: 5.1
Subsidiary Risk: No information available
Packing Group: II
Description: UN1493, Silver nitrate, 5.1, II

IATA

UN Number: UN1493
Proper Shipping Name: Silver nitrate
Transport hazard class(es): 5.1
Subsidiary Risk: No information available
Packing group: II
Precautionary Statements - Response: 5L
Special Provisions: No information available
Description: UN1493, Silver nitrate, 5.1, II

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Silver Nitrate	7761-88-8	PresentACTIVE	Present KE-31281	Present	Present (1)-8	Present	Present	Present 231-853-9

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: 1lbfinal RQ
0.454kgfinal RQ
- California Directors List of Hazardous Substances: Present

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

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)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Silver Nitrate	7761-88-8	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
<i>Silver Nitrate</i>	7761-88-8	1 lb final RQ 0.454 kg final RQ	None	None	None	None

U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Silver Nitrate	7761-88-8	Not Applicable	Not Applicable

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
Silver Nitrate
7761-88-8 (100)

WHMIS 2015 Hazard Classification
Oxidizing solids - Category 2: H272 May intensify fire, oxidizer.;
Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.;
Health Hazard Not Otherwise Classified - Category 1: Causes severe damage to the respiratory tract; Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage.;
Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Silver Nitrate	7761-88-8	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Silver Nitrate	7761-88-8	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Silver Nitrate	7761-88-8	Not listed

EU Classification**EU GHS - SV - CLP 1272/2008**

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Silver Nitrate	7761-88-8	Oxidizing solids - Ox. Sol. 2: H272 May intensify fire, oxidizer.; Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage.; Hazardous to aquatic environment - acute hazard - Aquatic Acute 1: H400 Very toxic to aquatic life.; Hazardous to aquatic environment - chronic hazard - Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects.047-001-00-2

EU - CLP (1272/2008)**R-phrase(s)**

R 8 - Contact with combustible material may cause fire.

R34 - Causes burns

R50 - Very toxic 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.

S 1/2 - Keep locked up and out of the reach of children.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Silver Nitrate	7761-88-8	C; R34 N; R50-53 O; R8	No information	S(1/2) S26 S36/37/39 S45 S60 S61

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

C - Corrosive

N - Dangerous for the environment

O - Oxidising.



16. OTHER INFORMATION

Preparation Date: 07/09/2015
Revision date 5/30/2019
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