

SAFETY DATA SHEET

SILVER NITRATE

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: 1-905-466-3832
Chemical Name: Silver nitrate
Catalog Number: SIL222

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification:

Skin corrosion (Category 1)
Serious eye damage (Category 1)
Acute aquatic toxicity (category 3)

Pictogram:



Signal word: Danger

Hazard statement:

Oxidizing solids (Category 2)
Corrosive to metals (Category 1)
Skin corrosion (Category 1B)
Serious eye damage (Category 1)

Precautionary statements:

P260 Do not breathe dust or mist.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 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/doctor.
P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Target Organs: None known.
Eyes: Causes eye burns.
Skin: Causes skin irritation. May cause burns.
Inhalation: Causes irritation. May cause burns.
Ingestion: Harmful if swallowed. May cause burns and vomiting.

CHRONIC HEALTH HAZARDS:

Corrosive. Harmful If swallowed. Causes severe eye and skin Irritation. May cause burns.

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Silver nitrate	7761-88-8	>99%

Molecular Formula: AgNO₃
Molecular Weight: 169.87

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. GET MEDICAL ATTENTION
Skin: In case of contact, flush area immediately with soap and water while removing contaminated clothing and shoes. Wash clothing before reuse. Discard contaminated clothing in a manner which limits further exposure. GET MEDICAL ATTENTION.
Inhalation: GET MEDICAL ATTENTION IMMEDIATELY. Remove from exposure to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
Ingestion: If swallowed wash mouth out with water if person is conscious. GET MEDICAL ATTENTION. > Do Not induce vomiting.

SECTION 5 FIRE FIGHTING MEASURES

Flammable: No
Flash Point: N/A
Autoignition Temperature: N/A
Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.
Explosion Data: Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.
Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash

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thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.

Storage Conditions: Room temperature.

Reproductive Effects: No data available

Neurotoxicity: No data available

Mutagenicity: No data available

Carcinogenicity: Not listed by ACGIH, IARC, NTP, or OSHA

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

TWA 0.1mg/m3, Canada

Use adequate ventilation. AVOID DUST GENERATION.

Wear appropriate protective equipment to prevent eye and skin exposure.

Wear appropriate respirator to prevent lung irritation.

Personal Protection: Lab coat, safety goggles, rubber gloves.

Ventilation: Local exhaust systems. Use fume hood

Respiratory protection: use OSHA/MSHA approved respirator.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity:

No data available.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

TDG Canada

UN number: 1493 Class: 5.1 Packing group: II

Proper shipping name: SILVER NITRATE

Poison Inhalation Hazard: No

IMDG

UN number: 1493 Class: 5.1 Packing group: II EMS-No: F-A, S-Q

Proper shipping name: SILVER NITRATE

IATA

UN number: 1493 Class: 5.1 Packing group: II

Proper shipping name: SILVER NITRATE

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: solid

Appearance/odor: white. Odorless

pH: approx. 6 (5% aq soln.)

Vapor density: N/A

Vapor pressure: N/A

Viscosity: N/A

Freezing /Melting pt.: 212C

Boiling pt.: 433C

Decomposition temp: 440C

Solubility: soluble in water.

Specific Gravity: 4.35

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure

Conditions to avoid: dust generation, heat and ignition sources. Protect from light.

Incompatibility: Strong oxidizing agents and magnesium metals.

Hazardous Decomposition Products: Nitrogen oxides, silver oxides.,

Hazardous Polymerization: Will not occur

SECTION 15 REGULATORY INFORMATION

US : TSCA: listed

European/International: N/A

SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Dec 29/2021

Phone: (800) 234-1179

Material Safety Data Sheet is furnished

in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

Oral mouse, LD50= 50mg/kg

Oral rat, LD50= 1173mg/kg

Lethal dose for humans: 2g or 28.6mg/kg

Serious eye damage/eye irritation:

Eyes, rabbit, severe eye irritation

Epidemiology: No data available

Teratogenicity: No data available