

BioShop Canada Inc.

MATERIAL SAFETY DATA SHEET

SILVER NITRATE

I IDENTIFICATION:

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179

Emergency Telephone No.: 905-466-3832

Chemical Name: Silver nitrate

Catalog Number: Sil222

Molecular Formula: AgNO3

Molecular Weight: 169.87

WHMIS Classification: C, E, D1A

TSCA Status: Listed on the TSCA Inventory

II HAZARDOUS INGREDIENTS:

	CAS #	RTECS	%
Silver Nitrate	7761-88-8		>99%

III HAZARDS/TOXICOLOGICAL PROPERTIES:

DANGER: Strong oxidizer. May cause fire when in contact with other material. Causes eye, skin, GI and respiratory tract burns. May be harmful if swallowed. May cause permanent discoloration of the skin and internal organs

Potential Health Effects: Target Organs: Eyes , skin and mucous membranes.

Eyes: Causes eye burns.

Skin: Causes skin burns.

Ingestion: Cause GI tract burns. May cause permanent blue discoloration of the skin, internal organs and eyes. Lethal dose is 2g for humans.

Inhalation: Causes severe irritation of the GI tract. May cause blue discoloration of the skin and mucous membranes..

CHRONIC HEALTH HAZARDS: May cause methemoglobinemia, characterized by brown colored blood. May cause shortness of breath cyanosis and possible death. Chronic inhalation may cause a permanent blue color to the skin and eyes.

Toxicity Data:

Oral mouse, LD50= 50mg/kg

Oral rat, LD50= 1173mg/kg

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

Epidemiology: No info found

Carcinogenicity: No info found

Teratogenicity: no info found.

Reproductive effects: Yes. See RTECS for complete info

Neurotoxicity: No info.

IV FIRST AID MEASURES:

Eyes: Immediately flush with plenty of water for at least 15 minutes.
GET MEDICAL ATTENTION

Skin: Immediately flush area with soap and water.Remove contaminated clothing. 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. CALL POISON CENTER> Do Not induce vomiting.

V FIRE AND EXPLOSION HAZARDS:

Flammable: No

Extinguishing Media: Use copious water to put out fire. Call fire department. Do not use dry chemicals, CO2 or foam.

Explosion Data: no data available

VI REACTIVITY:

Stability: Stable under normal temperature and pressure.

Conditions to avoid: Over heating, excessive light.

Incompatibilities: strong reducing agents , strong bases ammonia, alcohols..

Hazardous Combustion or Decomposition Products: Nitrogen oxides.

Oxygen, oxides of silver..

Hazardous Polymerization: Will not occur.

VII PHYSICAL DATA:

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

VIII PREVENTIVE MEASURES:

Respiratory protection: Wear appropriate NIOSH/MSHA approved respirator, chemical resistant gloves, safety goggles and protective clothing.

Leak and Spill Procedures: Evacuate the area. Ventilate the area. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Absorb with sand or vermiculite and place in closed containers for disposal. Wash spill site after material pickup is complete.

Waste Disposal: See local authorities for proper disposal procedures. Do not flush down drain.

Other precautions: Avoid contact. Do not get in eyes, on skin, or clothing.

Storage Conditions: Store in a cool dry place. Keep tightly closed. Avoid ignition sources. Avoid moisture

Label Hazard Warning: toxic by inhalation, ingestion and in contact with skin. OXIDIZER

Shipping Information: SILVER NITRATE,CLASS: 5.1 PKG: II, UN 1493 Regulated

IX PREPARATION OF MSDS:

Prepared By: M. Kierdelewicz (President)

Date: Dec 3/2011

Phone: (800) 234-1179

BioShop Canada Inc.

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The information provided on this 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.