

# SILVER NITRATE REAGENT

Product: R-0706

## Section 1: PRODUCT INFORMATION

**Chemical family:** Inorganic salt solution.

**Supplier:** Lowry & Associates  
Agents for Taylor Technologies Inc.  
4 – 1151 Gorham Street  
Newmarket, Ontario  
L3Y 7V1  
Tel: 905-836-0505  
Fax: 905-895-4539.

**Emergency Phone Number:** Canutec 613-996-6666.  
410-472-4340

**Manufacturer:** Taylor Technologies Inc.  
31 Loveton Circle  
Sparks, MD USA 21152  
Tel: 410-472-4340.

**TDG classification:** Not regulated.

**WHMIS classification:**

D2B



**DSL status:** Not available.

## Section 2: HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingrédient	V.L.E.	DL/50	CL/50
7761-88-8	< 5	SILVER NITRATE	0.01 MG(AG)/M3	50 MG/KG MOUSE ORAL  1173 MG/KG RAT ORAL	NOT AVAILABLE

## Section 3: PHYSICAL DATA

**Physical state:** Liquid.

**Appearance & odor:** Odourless.  
Colourless.

**Odor threshold (ppm):** Not applicable.

**Vapour pressure (mmHg):** 2.3 kPa

**Vapour density (air=1):** 1.3

### Volatiles (%)

**By volume:** 98%

**Evaporation rate  
(butyl acetate = 1):** Not available.

**Boiling point (°C):** 101  
**Freezing point (°C):** 0  
**pH:** 4.4  
**Specific gravity @ 20 °C:** 1.02  
**Solubility in water (%):** Soluble.  
**Coefficient of water\oil dist.:** Not available.  
**VOC:** Not available.

<b>Section 4: FIRE &amp; EXPLOSION DATA</b>
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**Flammability:** Not flammable.  
**Conditions of flammability:** Surrounding fire.  
**Extinguishing media:** Water  
**Special procedures:** Self-contained breathing apparatus required.  
Firefighters should wear the usual protective gear.  
**Auto-ignition temperature:** Not applicable.  
**Flash point (°C), method:** Not applicable.  
**Lower flammability limit (% vol):** Not applicable.  
**Upper flammability limit (% vol):** Not applicable.  
**Explosion Data**  
**Sensitivity to static discharge:** Not applicable.  
**Sensitivity to mechanical impact:** Not applicable.  
**Hazardous combustion products:** Oxides of nitrogen (NO<sub>x</sub>).  
**Explosive power:** Not applicable.

<b>Section 5: REACTIVITY DATA</b>
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**Chemical stability:** Stable under normal conditions.  
**Conditions of instability:** Excessive heat.  
Direct sunlight.  
Extreme temperatures.  
**Hazardous polymerization:** Not available.  
**Incompatible substances:** Organics.  
Combustible materials.  
**Hazardous decomposition products:** See hazardous combustion products.

## Section 6: TOXICOLOGICAL PROPERTIES

**Route of entry:** Skin contact, eye contact, inhalation and ingestion.

Effects of acute exposure

**Eye contact:** Irritant.

**Skin contact:** Irritant.  
May stain skin.

**Inhalation:** May be harmful if inhaled.

**Ingestion:** May cause burns of the gastrointestinal tract.  
May cause gastro-intestinal irritation.

**Effects of chronic exposure:** None known.

**LD50 of product, species & route:** Not available for mixture, see the ingredients section.

**LC50 of product, species & route:** Not available.

**Exposure limit of material:** Not available for mixture, see the ingredients section.

**Sensitization to product:** Not available.

**Carcinogenic effects:** Not listed as a carcinogen.

**Reproductive effects:** Not available.

**Teratogenicity:** Not available.

**Mutagenicity:** Not available.

**Synergistic materials:** Not available.

## Section 7: PREVENTATIVE MEASURES

### Precautionary Measures

**Gloves/Type:**



Wear protective gloves.

**Respiratory/Type:** None required under normal use.



NIOSH approved respirator, if necessary.

**Eye/Type:**



Safety glasses.

**Footwear/Type:** Safety shoes per local regulations.

**Clothing/Type:**



Lab coat.

**Other/Type:** Eye wash facility should be in close proximity.  
Emergency shower should be in close proximity.

**Ventilation requirements:** Provide sufficient mechanical ventilation to maintain exposure below TLV.

**Leak/Spill:** Absorb with inert material.  
Wear appropriate protective equipment.  
Place in appropriate container.

**Waste disposal:** In accordance with municipal, provincial and federal regulations.

**Handling procedures and equipment:** Avoid breathing vapors/mists.  
Use adequate ventilation.  
Wash thoroughly after using, particularly before eating or smoking.  
Wear personal protective equipment appropriate to task.  
Avoid contact with skin, eyes and clothing.  
Do not take internally.  
Launder contaminated clothing prior to reuse.

**Storage requirements:** Store away from incompatible materials.  
Keep out of direct sunlight.  
Keep containers tightly closed.  
Store in a cool, dry and well ventilated area.

**Special shipping information:** See transportation information.

#### Section 8: FIRST AID MEASURES

**Skin contact:** Wash with water for at least 15 minutes.  
Get medical attention.

**Eye contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Get prompt medical attention.

**Inhalation:** Remove victim to fresh air.  
Treat symptomatically.  
If breathing is difficult, obtain immediate medical attention.

**Ingestion:** Obtain immediate medical attention.  
Give large quantities of water to drink.  
Induce vomiting as directed by medical personnel.  
Never give anything by mouth to an unconscious person.

**Additional information:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

#### Section 9: ADDITIONAL INFORMATION

**General note:** This material safety data sheet was prepared from information obtained from various sources, including product suppliers and the Canadian Center for Occupational Health and Safety.

**Data prepared by:** Lowry & Associates  
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