

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

**U.S. Department of Labor**

Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072

**IDENTITY** (as Used on Label and List)  
**Silver Nitrate, 0.141N Solution**

**Note:** Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

**Section I**

Manufacturers /Distributor Address Number Street City State and Zip Code	Emergency Telephone Number
Columbus Chemical Industries, Inc.	CHEMTREC 1-800-424-9300
N4335 Temkin Road	Telephone Number for Information
Columbus, WI 53925	(920) 623-2140
	Date Prepared
	10-31-2006
	Signature of Preparer (optional)

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Silver Nitrate*	7761-88-8	Not available	0.01 mg/m <sup>3</sup> TWA	Not available	1-3%

\*Subject to the reporting requirements of SARA Title III Section 313.

**Section III - Physical/Chemical Characteristics**

Boiling Point	Not available	Specific Gravity (H <sub>2</sub> O = 1)	1.04
Vapor Pressure (mm Hg)	Not available	Melting Point	Not available
Vapor Density (AIR = 1)	Not available	Evaporation Rate (Butyl Acetate = 1)	Not available

Solubility in Water  
 Complete (in all proportions).

Appearance and Odor  
 Colorless, odorless liquid.

**Section IV Fire and Explosion Hazard Data**

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nonflammable		Not applicable	Not applicable
Extinguishing Media			

Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Unusual Fire and Explosion Hazards

Toxic gas of nitrogen oxides and silver oxides may be produced. **Oxidizer!**

**Section V Reactivity Data**

Stability	Unstable		Conditions to Avoid	Light, incompatibles, heat
	Stable	X		and oxygen gas.

**Incompatibility Materials to Avoid**

Combustible materials, bromine trifluoride and trichloride, magnesium, phosphine, strong reducing agents.

**Hazardous Decomposition or Byproducts**

Oxides of nitrogen, silver oxides.

**Hazardous Polymerization****Conditions to Avoid**

	May Occur		Not applicable.
	Will Not Occur	X	

**Section VI Health Hazard Data****Routes of Entry****Inhalation ?****Skin ?****Ingestion ?**

	Not applicable	Yes	Yes
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**Health Hazards (Acute and Chronic)**

SKIN: May cause irritation and may be harmful if absorbed through the skin. EYE: Causes eye irritation. INHALATION:

Material is irritating to the mucous membranes and upper respiratory tract. May cause severe irritation. INGESTION:

May be harmful if swallowed. May cause tissue damage to contacted tissues. Toxic to lungs and mucous membranes.

**Carcinogenicity****NTP****IARC Monographs****OSHA REGULATED?**

	Not Listed	Not Listed	Not Listed
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**Signs and Symptoms of Exposure.**

Irritation, especially to mucous membranes of eyes and upper respiratory tract. Itching, redness, staining, swelling of exposed tissues.

Ingestion may cause gastrointestinal pain, diarrhea, nausea, vomiting. Inhalation may produce coughing, choking, shortness of breath.

**Medical Conditions Generally Aggravated by Exposure**

Unknown to CCI.

**Emergency and First Aid Procedures**

INGESTION: Wash out mouth with water provided person is conscious. DO NOT INDUCE

VOMITING. Call a physician immediately. INHALATION: Remove to fresh air. If not breathing give artificial respiration.

If breathing is difficult, give oxygen. SKIN: Flush with water for at least 15 minutes. Remove contaminated clothing;

call a physician. EYES: Flush with large amounts of water for at least 15 minutes, lifting lower and upper eyelids.

**Section VII Precautions for Safe Handling and Use****Steps to be Taken in Case Material is Released or Spilled**

Evacuate unprotected personnel from area. Ventilate area. Wear approved respirator,

rubber boots, heavy protective gloves and chemical safety goggles. Contain spill with dikes, sand or noncombustible

material. Pick up, place in a plastic container and hold for disposal. Ventilate and wash spill area when complete.

Waste Disposal Method Dispose in accordance with all applicable Federal, state and local regulations.

**Precautions to be Taken in Handling and Storing**

Store in a cool, dry, well-ventilated area in tightly-closed, plainly-labelled containers. Store in a corrosion-resistant container. Protect against physical damage, air and light. Maintain adequate ventilation. Wash thoroughly after handling. Do not ingest or breathe vapors. Protect exposed tissues.

Other Precautions Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

**Section VII Control Measures**

Respiratory Protection (Specify Type) NIOSH/MSHA-approved respirator with dust/mist cartridge if necessary

Ventilation	Local Exhaust	Necessary.	Special	Eyewash nearby.
	Mechanical (General)	Recommended.	Other	Safety shower nearby.

Protective Gloves Compatible chemical-resistant gloves. Eye Protection safety goggles

Other Protective Clothing or Equipment Lab coat or apron, boots.

Work /Hygienic Practices Contact lenses should not be worn when working with this material. Wash exposed areas thoroughly after handling. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Do not breathe vapors.

Wash contaminated clothing before reuse. Wash hands prior to eating or smoking.

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