

# MATERIAL SAFETY DATA SHEET

Silver Nitrate (AF Grade) 0.282 Normal Solution

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Silver Nitrate (AF Grade) 0.282 Normal Solution

Product Code: 265-07-1

Material Uses:  
Manufacturer: OFI Testing Equipment, Inc.  
11302 Steeplecrest Drive  
Houston, TX 77065 USA  
Phone: (713) 880-9885  
Fax: (713) 880-9886

Entry Date : 5/12/2010

Print Date: 9/13/2010

24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	2			
Flammability:	1			
Reactivity:	1			
Hazard Rating:				
Least	Slight	Moderate	High	Extreme
0	1	2	3	4
NA = Not Applicable		NE = Not Established		

## SECTION 2 HAZARD IDENTIFICATION

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

Emergency Overview: Warning! Causes Severe Eye Irritation. Harmful If Swallowed Or Inhaled. Causes Irritation To Skin And Respiratory Tract. Affects Eyes, Skin And Respiratory Tract.

Inhalation: Effects are Expected to be Less Severe than for Exposure to Higher Concentrations where Symptoms Include Irritation to the Respiratory Tract with Coughing and Shortness of Breath.

Ingestion: Effects should be Less Severe than Through Exposure to Higher Concentrations of Silver Nitrate which may Include Symptoms of Pain and Burning in Mouth, Blackening of the Skin and Mucous Membranes, Throat and Abdomen, Diarrhea and Shock. A Poison in Higher Concentrations.

Skin: Effects are Expected to be Less Severe than from Exposure to Higher Concentrations where Symptoms Include Irritation to the Skin with Redness, Itching and Pain. May Cause Bluish Discoloration of Skin.

Eye Contact: Corrosive! Effects should be Less Severe than from Exposure to Higher Concentrations where Symptoms Include Blurred Vision, Redness, Pain and Burns to Eye Tissue and Possible Permanent Eye Damage.

Chronic Exposure: Discoloration of the Skin, Conjunctiva and Mucous Membrane.

Aggravated by Exposure: Persons with Pre-Existing skin Disorders or Eye Disease May be more Susceptible to the Effects of this Substance.

## SECTION 3 MIXTURE COMPONENTS

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SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	1,2-Propanediol (Propylene Glycol)	CAS# 57-55-6	~35%	V/V	
<input type="checkbox"/>	Silver Nitrate	CAS# 7761-88-8	~4.8%	W/V	OSHA PEL 0.01 mg(Ag)/m <sup>3</sup>
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	None Established

**SECTION 4 FIRST AID MEASURES**

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

**SECTION 5 FIRE FIGHTING MEASURES**

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire

Fire / Explosion Hazards: None

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

Ventilate area of Leak or Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Contain and Recover Liquid when Possible. Collect Liquid in an Appropriate Container or Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth), and Place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! S Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess of Reportable Quantities.

**SECTION 7 HANDLING AND STORAGE**

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory Protection: None required

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Gloves to prevent skin exposure as rubber or vinyl

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Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	not available	Percent Volatile by Volume:	~ 60%
Boiling Point:	not available	Evaporation Rate	Information not available
Vapor Pressure:	not available	Evaporation Standard	
Vapor Density:	not available	Auto Ignition Temp	Not available
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not available
Appearance /Odors:	Colorless liquid, mild odor	Upper Flamm. Limit in Air	Not available
Flash Point:	Not flammable		
Specific Gravity:	Information not available		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability: Stable

Conditions to Avoid: High temperatures, Light

Materials to Avoid: Halides, Ammonia, Phosphahtes

Hazardous Decomposition Products: oxides of carbon, nitrogen

Hazardous polymerization: Will Not Occur

Conditions to Avoid: none

**SECTION 11 Toxicological Information**

NTP Carcinogen - Known: No, IARC Category- None

**SECTION 12 Ecological Information**

Environmental Fate: This material is not expected to significantly Bioaccumulate.

Environmental Toxicity: No Information Found.

**SECTION 13 Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**SECTION 14 Transport Information**

DOT Classification: Not Regulated

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DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

**SECTION 15 Regulatory Information**

Chemical Inventory Status –

Part 1:Ingredient

Silver Nitrate (7761-88-8)

TSCA Yes

EC Yes

Japan YES

Australia Yes

Chemical Inventory Status –

Part 2:Ingredient

Silver Nitrate (7761-88-8)

Korea Yes

DSL Yes

NDSL No

Phil. Yes

Federal, State & International Regulations –

Part 1: Ingredient.

Silver Nitrate (7761-88-8)

RQ No

TPQ No

List NO

Chemical Catg SILVER COMPD

Federal, State &

International Regulations –

Part 2:Ingredient

Silver Nitrate (7761-88-8)

CERCLA 1

261.33 No

8(d) No

Chemical Weapons Convention: No

TSCA 12 (b):No

CDTA:No MIXTURE/LIQUID

SARA 311/312: Acute:YES

Chronic: YES

Fire: No

Pressure: No

Reactivity: No

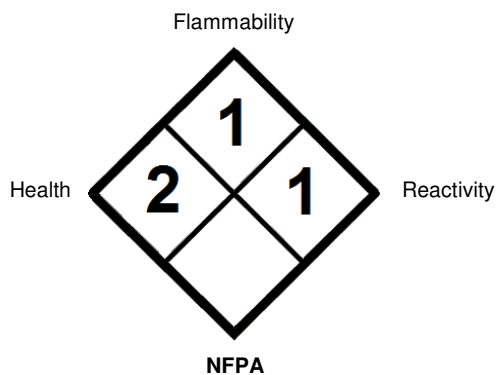
Australian Hazchem Code: 2X

Poison Schedule:NONE ALLOCATED

**SECTION 16 Additional Information**

Conditions aggravated/target organs: Persons with pre-existing skin, eye or respiratory disorders are more susceptible. Overexposure symptoms. Acute: Slight irritation to skin, eyes, mucous membranes, and GI tract. Stains skin. Effects of overexposure. Acute and chronic: Harmful by inhalation, ingestion, skin absorption. May cause eye and skin irritation and central nervous system problems. May cause GI disturbances, nausea, headache and vomiting. Target organs: None. Persons with pre-existing disorders may be more susceptible.

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Revisions

6/22/2010	0.1	updated msds to 16 section from 10 section msds. STN
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