## **MATERIAL SAFETY DATA SHEET**

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## ALDON CORPORATION

Mixture \*

C.A.S. No.

1533 W.Henrietta Rd. Avon, New York 14414 (716) 226-6177

MSDS No. Effective Date SS 161 March 3, 1998

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SECTIO	NI NAME	24 HC	OUR EMERGENCY AS	SSISTAN	1CE
Product	SILVER NITRATE SOLUTION		CHEMTREC I	1110	
Chemical Synonyms	1%; 10%; 1.0 N; 0.1 N; 0.01 N; 0.02N;	0.05N	800-424-9300	Health Fire	0
Formula	Mixture *		Day 716-226-6177	Reactivity	0
Unit Size	up to 4 Lt.		HAZARD RATING	HMIS	*

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Silver Nitrate 1% Solution 10% Solution	1% 10%	See Section V.
1.0 Normal Solution 0.1 Normal Solution	16.98% 1.69%	
0.01 Normal Solution 0.02 Normal Solution	0.16% 0.32%	
0.05 Normal Solution	0.80%	

WARNING! MAY BE HARMFUL IF SWALLOWED. IRRITANT TO SKIN, EYES AND MUCOUS MEMBRANES.

SECTION III	PHYSICAL DATA		
Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.0-1.1 at 20°C
Boiling Point (°F)	Approx. 100°C (212°F) water	Percent Volatile by Volume (%)	83-99%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate ( Water =1)	Slightly less than 1.
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, colorless liquid; no odor.		

SECTIO	N IV FIRE AN	D EXPLOSION HAZAR	D DATA		
Flash Point	Non-combustible.	Flammable Limits in Air	Lower	Upper	
(Method Used)	Non-combustible.	% by Volume N/A			
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

## SPECIAL FIREFIGHTING PROCEDURES

Wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes. Use flooding amounts of water in early stages of fire.

\* Silver Nitrate: (CAS No. 7761-88-8) Nitric Acid: (CAS No. 7697-37-2) Water: (CAS No. 7732-18-5)

Molarity = Normality

UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust and fumes.

D.O.T. **NON-REGULATED.** 

## **SECTION V HEALTH HAZARD DATA** SS 161 None established for this solution. Threshold Limited Value (ACGIH 1992-93) TWA: 0.01 mg/m<sup>3</sup> as silver metal as soluble compounds 0.1 mg/m<sup>3</sup> as silver metal. **Effects of Overexposure CONTACT:** May cause burns to skin, eyes and mucous membranes. Discolors skin on contact. **INGESTION:** May be harmful if swallowed. Exercise appropriate procedures to minimize potential hazards. **Emergency and** INGESTION: If conscious, give a teaspoonful of table salt (Sodium First Aid Procedures Chloride) dissolved in a glass of warm water to drink. Get immediate medical attention. Never give anything by mouth to an unconscious person. EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. SKIN: Flush thoroughly with water for at least 15 minutes. INHALATION AS MIST: Remove to fresh air. **SECTION VI** REACTIVITY DATA Unstable Conditions to Avoid Excessive temperature to cause Stability evaporation. Protect from light. Stable Χ Incompatibility When dry, reducing materials; charcoal, ammonium hydroxide, alcohol and organic materials can cause a reaction. (Materials to Avoid) **Hazardous** Thermal decomposition produces metallic silver, nitrogen, oxygen and oxides of nitrogen. **Decomposition Products Hazardous Polymerization** Conditions to Avoid **May Occur** Will Not Occur Not applicable. **SECTION VII** SPILL OR LEAK PROCEDURES Steps to be taken in case Absorb in vermiculite, sand, earth or paper towel. Scoop up and material is released or spilled place in a suitable container for proper disposal. Wash spill area with soap and water. Discharge, treatment, or disposal may be subject to Federal, State or Local laws. Waste Disposal Method These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in an approved chemical landfill or contract an approved and licensed disposal agency. SECTION VIII SPECIAL PROTECTION INFORMATION None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator. Respiration Protection (Specify Type) Local Exhaust Not required. Special Ventilation Not required. Mechanical (General) Other No. Protective Gloves Eye Protection Rubber. Chemical safety glasses. Other Protective Goggles, smock, apron, proper gloves and eye wash station. Equipment **SECTION IX** SPECIAL PRECAUTIONS Precautions to be Taken Store in a cool place and protect from light. Do not store near in Handling & Storing combustible material. Wash thoroughly after handling. Keep container tightly closed when not in use Read label on container before using. Do not wear contact lenses when working with chemicals. Other Precautions Avoid breathing mist. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Michael Raszeja Revision No. 8 Date 3/03/98 Approved MR

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