



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. SS 155
Effective Date November 19, 1998

SECTION V HEALTH HAZARD DATA

SS 155

Threshold Limited Value

Airborne Exposure Limits: As silver soluble compounds: TWA: 0.1 mg/m³
Toxicity: no data available.

Effects of Overexposure

May cause irritation to respiratory and digestive tract. Absorption of silver compounds over a long period of time may cause argyria (grayish discoloration of various tissues, e.g. conjunctivae). Many silver salts are irritating to skin, mucous membranes. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention. **SKIN:** Flush with water, then wash with mild soap and water. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Call physician. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Stable	Conditions to Avoid	Stable under ordinary conditions of use and storage. Protect from light.
		X		

Incompatibility (Materials to Avoid)	Alkali metals: Forms impact sensitive compounds. Explosive compounds (nitride or fulminate) may be formed in the presence of ammonia or hydrazine, acetylene, hydrogen peroxide. Darkens on exposure to light. Aluminum: Explosive reaction.
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Hazardous Decomposition Products	Can decompose to emit toxic chlorine or hydrogen chloride gas at high temperatures.
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Recover for use if not contaminated. Avoid creating dust. Spillage should be swept or mopped up and retained for the recovery of silver.
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Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.
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Send to refiners for the recovery of silver. Dispose of in an approved chemical landfill or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat, goggles, eye wash station, proper gloves, ventilation hood.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Protect from exposure to air and light. Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated place away from acid and ammonia fumes. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Avoid contact with skin, eyes and clothing. Avoid breathing dust. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 5	Date	11/19/98	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	SILVER CHLORIDE
Chemical Synonyms	Chloride Salt of Silver
Formula	AgCl
Unit Size	up to 2.5 Kg.
C.A.S. No.	7783-90-6

	CHEMTREC 800-424-9300 Day 716-226-6177	Health 1 Fire 0 Reactivity 0
	NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	HMIS * 3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
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Silver Chloride	100%	See Section V.
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WARNING! MAY BE HARMFUL IF

INHALED OR SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	455°C (851°F)	Specific Gravity (H ₂ O = 1)	5.561
Boiling Point (°F)	1550°C (2822°F)	Percent Volatile by Volume (%)	Non-volatile.
Vapor Pressure (mm Hg)	1 mm at 912°C	Evaporation Rate ()	Not applicable.
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	2 mg per liter of water.		
Appearance & Odor	White crystalline powder; darkens on exposure to light; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-combustible.	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media	Use any media suitable for extinguishing supporting fire.
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SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

FIRE: Not a fire hazard.
EXPLOSION: Not an explosion hazard. Fire or excessive heat may produce hazardous decomposition products.

D.O.T.	NON-REGULATED.
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Approved by U.S. Department of Labor "essentially similar" to form OSHA-20