



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. SS 139
Effective Date November 18, 1998

SECTION V HEALTH HAZARD DATA

SS 139

Threshold Limited Value TWA: Silver as metal 0.1 mg/m³ (dust).
(ACGIH 1992-93).

Effects of Overexposure There is no known hazard for this material in the foil form as supplied. Silver metal as dust or fume presents a health hazard. Generalized argyria may result from silver ingestion. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures None is anticipated for silver metal foil.

SECTION VI REACTIVITY DATA

Stability

Unstable		Conditions to Avoid Blackened by ozone, by hydrogen sulfide, by sulfur.
Stable	X	

Incompatibility (Materials to Avoid) Acetylene, ammonia and hydrogen peroxide.

Hazardous Decomposition Products This material will not decompose. It can enter into chemical reaction to form hazardous soluble salts. Hazardous when heated to fume.

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 Salvage for reuse.

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. This material can be safely disposed of in a landfill. This metal has high scrap value on your local market and this should be investigated before disposing of potentially valuable material.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None needed for silver metal in the foil form.

Ventilation

Local Exhaust	None needed as foil.	Special	No.
Mechanical (General)	None needed as foil.	Other	Adequate to maintain below exposure limit.

Protective Gloves None needed. **Eye Protection** Chemical safety glasses.

Other Protective Equipment None required in normal handling.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing No special precautions needed in storage and handling as foil. Use adequate ventilation during melting, casting and grinding to keep airborne levels below TLV, store at room temperature, avoid conditions which create fumes or fine dust. Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Protect from tarnishing by keeping container tightly closed.

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

Revision No. 4 **Date** 11/18/98 **Approved** Michael Raszeja **Chemical Safety Coordinator** MR

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 METAL FOIL
Chemical Synonyms	Silver
Formula	Ag
Unit Size	up to 2.5 Kg.
C.A.S. No.	7440-22-4

CHEMTREC
800-424-9300
Day 716-226-6177

Health	0
Fire	0
Reactivity	0

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

HMIS *
0 1 2 3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Silver Metal as Foil	100%	0.1 mg/m ³ (Air)

USE IN KEEPING WITH GOOD LABORATORY PRACTICES.

SECTION III PHYSICAL DATA

Melting Point (°F)	960.5°C (1760.9°F)	Specific Gravity (H ₂ O = 1)	10.49 @ 15°C
Boiling Point (°F)	1950°C (3542°F)	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	1 mm @ 1357°C	Evaporation Rate ()	Non-volatile (NA).
Vapor Density (Air=1)	NA as solid.		
Solubility in Water	Insoluble.		
Appearance & Odor	Bright metallic luster; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

No known unusual fire or explosion hazards. May form hazardous silver metal fume in fire conditions.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20