



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. SS 188
Effective Date April 28, 1999

SECTION V HEALTH HAZARD DATA

SS 188

Threshold Limited Value

None assigned as Silver oxide. As Silver (CAS No. 7440-22-4)
PEL 0.01 mg/m³; TWA 0.1 mg/m³ (Air).

Effects of Overexposure

May cause Argyria, a blue-grey discoloration of the skin, eyes and mucous membranes. Dust irritating if inhaled; may cause nasal bleeding. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If discomfort or illness develops, get medical attention. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops, get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Get medical attention. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Temperature above 300°C. May decompose on exposure to light.
	Stable	X		

Incompatibility (Materials to Avoid)	Ammonia, organic vapors, reducing agents.
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Hazardous Decomposition Products	Emits oxygen above 300°C.
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Hazardous Polymerization		Conditions to Avoid	Not applicable.
May Occur	Will Not Occur		
	X		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Recover as much as possible for reclamation or consult with silver recovery firm.
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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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Silver oxide is an expensive metal and should be recovered for reuse or recycling. Send to refiner for silver recovery.

SECTION VIII SPECIAL PROTECTION INFORMATION

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

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

Precautions to be Taken in Handling & Storing	Store in a secure place, avoid contact with organic materials. 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 breathing dust. Use with adequate ventilation. Remove and wash contaminated clothing.

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

Revision No. 7	Date 4/28/99	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 OXIDE
Chemical Synonyms	Silver (I) Oxide
Formula	Ag ₂ O
Unit Size	up to 500 g
C.A.S. No.	20667-12-3

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

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

Health	1
Fire	0
Reactivity	1

HMIS *

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
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Silver Oxide	100%	See Section V.
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WARNING! IRRITANT. LIGHT - SENSITIVE. CONTACT WITH

ORGANIC MATERIALS MAY CAUSE FIRE OR EXPLOSION.

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes at 300°C (572°F)	Specific Gravity (H ₂ O = 1)	7.22
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Non-volatile.
Vapor Pressure (mm Hg)	N/A	Evaporation Rate ()	Not applicable.
Vapor Density (Air=1)	N/A		
Solubility in Water	0.0017 grams per 100 mL. at 20°C.		
Appearance & Odor	Brown-black powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	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 full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Silver oxide will not burn, but will decompose at 300°C emitting oxygen to support fire.

D.O.T. NON-REGULATED.

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