



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No.
Effective Date

CC 567
October 30, 1998

SECTION V HEALTH HAZARD DATA

CC 567

Threshold Limited Value

(Air) as copper metal: 1.0 mg/m³ for 8 hr. working day. Copper (fume) TLV 0.2 mg/m³. RTECS # GL8050000 Toxicity data: Orl-rat LD50 470 mg/kg.

Effects of Overexposure

INHALATION: Dust may cause upper respiratory tract irritation, sneezing, coughing, digestive disorder and fever. Prolonged exposure may result in congestion of nasal mucous membranes, ulceration of nasal septum and anemia. **SKIN:** Causes irritation. May cause allergic skin reaction. **EYES:** Causes irritation, conjunctivitis, ulceration of eyelids and clouding of cornea.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **SKIN:** Flush with soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **INGESTION:** If conscious, rinse mouth with water. Call a physician. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Elevated temperatures. Air and moisture sensitive.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong oxidizing agents.
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Hazardous Decomposition Products	Copper fume or dust. Copper fumes will be released if Cuprous oxide is heated above its melting point 1235°C (2255°F).
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Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in a suitable container for disposal. Flush spill area with water after material pickup is complete.
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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. Dispose of in an approved chemical landfill or contract with a licensed chemical waste disposal agency.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA approved dust mask or respirator.		
Ventilation	Local Exhaust	Recommended.	Special
	Mechanical (General)	Recommended.	Other
Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.

Other Protective Equipment	Goggles, smock, apron, eye wash station, proper gloves, ventilation hood.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Air and moisture sensitive. Keep container tightly closed. Store in a dry place. 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 or eyes. Do not breathe dust. Do not take internally. Remove and wash contaminated clothing.

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

Revision	3	Date	10/30/98	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	CUPROUS OXIDE
Chemical Synonyms	Copper (I) Oxide, Red C.I. No. 77402
Formula	Cu ₂ O
Unit Size	up to 2.5 Kg.
C.A.S. No.	1317-39-1

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

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

Health	2
Fire	0
Reactivity	1

HMIS *

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Cuprous Oxide	96 %	1 mg/m ³ as Cu.
Inert Ingredients	4 %	None established.

CAUTION! HARMFUL IF INHALED, SWALLOWED OR

ABSORBED THROUGH SKIN. CAUSES SKIN AND EYE IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	1235°C (2255°F)	Specific Gravity (H ₂ O = 1)	6.0
Boiling Point (°F)	1800°C (3272°F)	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	Practically insoluble.		
Appearance & Odor	Red to reddish brown powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

SPECIAL FIREFIGHTING PROCEDURES

This material is not combustible, nor will it support combustion. In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products or dust; can react vigorously with oxidizing materials.

D.O.T. NON-REGULATED.

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