



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. CC 567  
Effective Date October 30, 1998

## SECTION V HEALTH HAZARD DATA

CC 567

**Threshold Limited Value** (Air) as copper metal: 1.0 mg/m<sup>3</sup> for 8 hr. working day. Copper (fume) TLV 0.2 mg/m<sup>3</sup>. 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

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Elevated temperatures.
	<b>Stable</b>	X		Air and moisture sensitive.

**Incompatibility (Materials to Avoid)** Strong oxidizing agents.

**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).

<b>Hazardous Polymerization</b>		<b>Conditions to Avoid</b>
<b>May Occur</b>	<b>Will Not Occur</b>	
	X	Not applicable.

## 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.

**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.

## 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.

<b>Ventilation</b>	<b>Local Exhaust</b>	Recommended.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Recommended.	<b>Other</b>	No.

**Protective Gloves** Rubber. **Eye Protection** Chemical safety glasses.

**Other Protective Equipment** Goggles, smock, apron, eye wash station, proper gloves, ventilation hood.

## 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.  
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.

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.

<b>Revision</b> 3	<b>Date</b> 10/30/98	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	CUPROUS OXIDE	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177  <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 <b>HMIS *</b>
<b>Chemical Synonyms</b>	Copper (I) Oxide, Red C.I. No. 77402	
<b>Formula</b>	Cu <sub>2</sub> O	
<b>Unit Size</b>	up to 2.5 Kg.	
<b>C.A.S. No.</b>	1317-39-1	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Cuprous Oxide	96 %	1 mg/m <sup>3</sup> 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

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

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-combustible (NA).	<b>Flammable Limits in Air % by Volume</b>	NA	<b>Lower</b>	<b>Upper</b>
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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