



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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(716) 226-6177

MSDS No. CC 420  
Effective Date March 23,1998

## SECTION V HEALTH HAZARD DATA

CC 420

### Threshold Limited Value

TWA: 1.0 mg/m<sup>3</sup> for 8 hour working day. Copper (fume) T.L.V. 0.2 mg/m<sup>3</sup>.  
RTECS Ref. # GL5325000

### Effects of Overexposure

**INHALATION:** Of high concentrations of the dust can cause intense sneezing, nausea, weakness and metal fume fever. **SKIN:** May cause skin irritation. **EYES:** May cause irritation, corneal abrasions. \* **INGESTION:** Moderately irritating to stomach lining.

### Emergency and First Aid Procedures

**INHALATION AS DUST:** Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **SKIN:** Flush with water. If irritation develops, get medical attention. **EYES:** Remove particles. Flush thoroughly with water, lifting upper and lower eyelids occasionally. Get medical attention.  
\* **INGESTION:** If swallowed, if conscious, give large amounts of water and induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	
	X	High acidity. Heat and open flame.

Incompatibility (Materials to Avoid)	Strong acids, bromates, chlorates, iodates, acetylene and halogens.
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Hazardous Decomposition Products	Nitrogen oxide if reacted with nitric acid.
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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	Recover for use if possible. Sweep up and place in a suitable container for disposal. If copper powder is involved, avoid making dust clouds by sprinkling moderately with damp sand.
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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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Dispose of in accordance with federal, state and local regulations.

## 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.
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Ventilation	Local Exhaust	Yes-for dust.	Special	No.
	Mechanical (General)	Yes-fume or dust.	Other	No.

Protective Gloves	Light plastic if sensitive to copper.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Smock, apron, proper gloves, eye wash station and a ventilation hood.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place avoiding contact with fumes or hot surfaces. Wash thoroughly after handling. Avoid conditions which create fumes or fine dust.
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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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Use only 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. 6	Date	3/23/98	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	COPPER, METAL
Chemical Synonyms	Copper: shot, granules, powder * sheet, foil, turnings, strips, screen.
Formula	Cu
Unit Size	up to 2.5 Kg.
C.A.S. No.	7440-50-8

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

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

Health	0
Fire	0
Reactivity	0

HMIS \*

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Copper Metal: shot, granules, powder, sheet, foil, turnings, strips.	100%	Fume 0.2 mg/m <sup>3</sup> Dust and mist, as Copper 1 mg/m <sup>3</sup> .
CAUTION! DO NOT BREATHE METAL DUST.		
AVOID PROLONGED OR REPEATED CONTACT WITH SKIN.		

## SECTION III PHYSICAL DATA

Melting Point (°F)	1083°C (1981°F)	Specific Gravity (H <sub>2</sub> O = 1)	8.92 at 20°C
Boiling Point (°F)	2595°C (4703°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	1 mm @ 1628°C	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Insoluble.		
Appearance & Odor	Reddish, lustrous metal.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-combustible (NA). *	Flammable Limits in Air % by Volume	* No data	Lower	Upper
Extinguisher Media	Dry sand, earth, dolomite, and sodium chloride.				

### SPECIAL FIREFIGHTING PROCEDURES

USE NO WATER IN FIGHTING FIRES.  
In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

\* Copper powder when dispersed in air, becomes moderate fire hazard.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products. Dangerous in dispersed form when exposed to flame or sparks or by chemical reaction with oxidizers.

D.O.T. NON-REGULATED.

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