



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. CC 420
Effective Date March 23, 1998

SECTION V HEALTH HAZARD DATA

CC 420

Threshold Limited Value TWA: 1.0 mg/m³ for 8 hour working day. Copper (fume) T.L.V. 0.2 mg/m³.
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	High acidity. Heat and open flame.
	Stable	X		

Incompatibility (Materials to Avoid) Strong acids, bromates, chlorates, iodates, acetylene and halogens.

Hazardous Decomposition Products Nitrogen oxide if reacted with nitric acid.

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 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.

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 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.

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.

Other Protective Equipment Smock, apron, proper gloves, eye wash station and a ventilation hood.

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.
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.

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	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS *	Health	0
Chemical Synonyms	Copper: shot, granules, powder * sheet, foil, turnings, strips, screen.		Fire	0
Formula	Cu		Reactivity	0
Unit Size	up to 2.5 Kg.			
C.A.S. No.	7440-50-8			

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 ³ Dust and mist, as Copper 1 mg/m ³ .
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 ₂ 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	Lower	Upper
		* No data		

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