




**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

1533 W.Henrietta Rd.
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MSDS No. CC 490
Effective Date February 16, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	CUPRIC CARBONATE, BASIC	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE 0 1 2 HMIS * HIGH EXTREME 3 4	Health	2
Chemical Synonyms	Copper Carbonate Hydroxide		Fire	0
Formula	$\text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2$		Reactivity	0
Unit Size	up to 2.5 Kg.			
C.A.S. No.	12069-69-1			

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Cupric Carbonate, Basic	100%	See Section V.
CAUTION! HARMFUL IF SWALLOWED.		
IRRITANT TO SKIN AND MUCOUS MEMBRANES.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes < 200°C (392°F)	Specific Gravity ($\text{H}_2\text{O} = 1$)	4.0
Boiling Point (°F)	Not applicable.	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (= 1)	Not applicable.
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	Insoluble.		
Appearance & Odor	Dark green powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Cupric Carbonate, Basic does not burn, nor will it support fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

If dry heated above 200°C, Carbon dioxide is evolved. If water is used to extinguish fire, care should be used to keep such water out of streams or other water bodies. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

D.O.T. NON-REGULATED.

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

SECTION V HEALTH HAZARD DATA CC 490

Threshold Limited Value (Air) As copper metal: 1.0 mg/m³ for 8 hr. working day. Copper (fume) TLV 0.2 mg/m³. Toxicity data: orl-rat LD50: 0.625 to 1.250 g/kg body weight.

Effects of Overexposure **INGESTION:** Can cause copper poisoning and/or death. **SYMPTOMS:** Nausea, vomiting, diarrhea, and gastric pain. **EYES:** Corrosive; causes conjunctivitis. **SKIN:** May cause allergic skin reaction. **INHALATION:** Causes upper respiratory irritation and congestion of the nasal mucous membranes.

Emergency and First Aid Procedures **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call a physician. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Acids and acid fumes.
	Stable	X	
Incompatibility (Materials to Avoid)	Decomposes at 200°C. Acids.		
Hazardous Decomposition Products	On heating above 200°C decomposes, yielding carbon dioxide and Cupric oxide.		
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 Sprinkle lime or soda ash on spill to form insoluble copper salts. Sweep up and place in a suitable container for proper disposal. Avoid contaminating public water.

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 contact 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.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.
Protective Gloves	Rubber.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Safety glasses, smock, apron, proper gloves, ventilation hood, and eye wash station.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, 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 breathing dust. Remove and wash contaminated clothing.

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

Revision No. 5	Date 2/16/99	Approved Michael Raszeja	Chemical Safety Coordinator	MR
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