

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME CERAMIC COLOR & CHEMICAL MFG. CO.		EMERGENCY TELEPHONE NO. 412-846-4000
CHEMICAL NAME AND SYNONYMS COPPER CARBONATE		TRADE NAME AND SYNONYMS
CHEMICAL FAMILY METAL CARBONATE CAS 12069-69-1	FORMULA Cu CO₃	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
<p>THE THRESHOLD LIMIT VALUE FOR CUPRIC CARBONATE AS ADOPTED BY ACGIH FOR 1971 HAS NOT BEEN ESTABLISHED. THE 8 HOUR TIME WEIGHTED AVERAGE FOR COPPER DUSTS AND MISTS IS 1 mg/M³.</p>				98	1mg/M ³

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Solid	1800°C	SPECIFIC GRAVITY (H ₂ O=1)	4.0
VAPOR PRESSURE (mm Hg.)		NA	PERCENT VOLATILE BY VOLUME (%)	Less than 1/3%
VAPOR DENSITY (AIR=1)		NA	EVAPORATION RATE (H ₂ O=1)	NA
SOLUBILITY IN WATER	Less than	1/2%		
APPEARANCE AND ODOR	Black finely divided powder			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	NA	FLAMMABLE LIMITS	LeL	UeL
EXTINGUISHING MEDIA	NA			
SPECIAL FIRE FIGHTING PROCEDURES	DOES NOT BURN			
UNUSUAL FIRE AND EXPLOSION HAZARDS	NONE KNOWN			

V HEALTH HAZARD INFORMATION

HEALTH HAZARD DATA	HAZARD CLASSIFICATION	BASIS FOR CLASSIFICATION	SOURCE
ROUTES OF EXPOSURE INHALATION	Not determined	TLV - TWA 8 hrs = 1 mg/M ³	29 CFR § 1910:1200
SKIN CONTACT	Not irritating to skin (FHSLA)	Skin irritation Index (rabbits) = zero	Laboratory test on product
SKIN ABSORPTION	Not determined		
EYE CONTACT	Mild irritant.	Eye irritation score (rabbits) = 6.0; 3.7; and 0 at 24, 48 and 72 hours	Laboratory test on product
INGESTION	Moderate toxicity	Oral LD ₅₀ (rats) = 0.625 to 1.250 g/kg body weight	Laboratory test on product

EFFECTS OF OVEREXPOSURE

ACUTE OVEREXPOSURE

Copper ingestion is seldom fatal. Ingestion may cause vomiting as copper is an emetic.

CHRONIC OVEREXPOSURE

None known

EMERGENCY AND FIRST AID PROCEDURES

EYES: Wash eyes with large amounts of water for at least 15 minutes. See a physician.

SKIN: No special procedures.

INHALATION: Remove worker from exposure and seek medical aid.

INGESTION: Drink large quantity of water or milk. Seek medical aid.

NOTES TO PHYSICIAN

IX SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS

This product may be toxic to fish. Keep out of lakes, streams, or ponds.

Keep product out of reach of children. Harmful if swallowed.

OTHER HANDLING AND STORAGE REQUIREMENTS

Store in a dry place.

ADDITIONAL REGULATORY CONCERNS

FEDERAL:

FDA

USDA

CPSC

TSCA IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? Yes

OTHER Light copper carbonate is registered with EPA as a pesticide.

STATE:

OSHA: Product is a hazardous material as defined by 29 CFR § 1910.1200 because its dust and mist is regulated as an air contaminant.

Product is not listed by the National Toxicology Program, the International Agency for Research on Cancer, nor the Registry of Toxic Effects of Chemical Substances (1981-82) as a carcinogen or a potential carcinogen.

PREPARED BY

TITLE:

COMPANY:

ADDRESS:

HM
Revised
6-6-84

VI REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

None known

COMPATIBILITY

Mixing with acids will solubilize product to form the respective copper acid salts which are water soluble.

HAZARDOUS DECOMPOSITION PRODUCTS

None known. High temperature decomposes product releasing CO₂, producing cupric oxide.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

None known

VII DISPOSAL, SPILL OR LEAK PROCEDURES

AQUATIC TOXICITY (E.G. 96 HR. TLM)

Not determined

WASTE DISPOSAL METHOD

Remove waste to an approved chemical landfill for disposal.
Product is not listed in 40 CFR 261.33 when discarded.

EPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Contain spill and if dry sweep up product and dispose in an approved landfill.
If wet remove this insoluble product and dispose in an approved landfill.

NEUTRALIZING CHEMICALS

Product is neutral and water insoluble. If it has been solubilized by an acid, use lime or soda ash to neutralize into insoluble product.

VIII SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS

OSHA regulation 29 CFR 1910.1000 lists the 8 hour TWA for any copper dust as 1 mg/m³ as copper.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY (SPECIFY IN DETAIL) An appropriate dust mask must be worn if TWA exceeds allowable limit.

EYE Chemical goggles should be worn when handling product and eye contact is possible.

GLOVES Not known to be necessary. However, wearing of chemical gloves is a good suggested practice when handling chemicals.

OTHER CLOTHING AND EQUIPMENT

No other clothing or equipment is known to be necessary.