

MATERIAL SAFETY DATA SHEET

Emergency Telephone: 800-473-0179

COPPER CARE PRODUCT NAME:

CU-BOR

ATTENTION: SAFETY MANAGER

MSDS Number: 71101

Date of Last Revision: 02/2009

USA EPA Registration Number: 54471-10

CANADA PMRA Registration Number: 27621

I. PHYSICAL AND CHEMICAL CHARACTERISTICS

APPEARANCE AND ODOR: Thick blue paste with a faint amine odor.

BOILING POINT (RANGE) (Deg F):	240 – 250	DENSITY (Lbs/Gal)(Water @20C = 8.33):	10.1
VAPOR PRESSURE (mm Hg):	>1	EVAPORATION RATE (nBuAC=1):	<1
VAPOR DENSITY (Air = 1):	>1	% VOLATILE BY WEIGHT:	33.00
SOLUBILITY IN WATER:	Slight	SPECIFIC GRAVITY:	1.21
pH RANGE:	10.60 –11.60	VOC CONTENT	0.469 lb/gal

II. HAZARDOUS INGREDIENTS (See Section X Also)

COMMON NAME	CHEMICAL NAME	C.A.S.#	%	OSHA PEL	ACGIH TLV
Cupric Hydroxide	Copper Hydroxide, Copper Salt ⊕	20427-59-2	1-10	1.0 mg/m ³	1.0 mg/m ³
Rheological Additive	Cellulose Filler ⊕	Mixture	1-10	5.0 mg/m ³	5.0 mg/m ³
Rheological Additive	Attapulgate Clay ⊕	70131-50-9	5-15	5.0mg/m ³	5.0 mg/m ³
10 MOL Borax	Sodium tetraborate, Decahydrate ⊕	1303-96-4	35-45	10.0 mg/m ³	5.0 mg/m ³
Monoethanolamine	2-Aminoethanol (Ethanolamine)	141-43-5	5-15	3.0 ppm	3.0 ppm
Water	Water	7732-18-5	30-40		

Ingredients marked with the (⊕) sign are hazardous as nuisance dusts in dry or granular products. These ingredients may not present a hazard in liquid products.

Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372) requires that certain toxic chemicals be identified. Any such chemicals contained in this product are listed in Section II and are identified by an asterisk (*).

OSHA's Hazard Communication Standard 29CFR 1910.1200, also requires other hazardous chemicals to be listed and the MSDS to identify the hazards associated with the product. This information must be included in all MSDS's that are copied and distributed for this product.

HMIS HAZARD RATINGS

Health Hazard: 2 Fire Hazard: 1 Reactivity: 0 Special Hazard: ----
(Based on the revised National Paint & Coatings Association HMIS Rating System) (1984)

III. HEALTH HAZARD DATA (See Section IX Also)

EMERGENCY AND FIRST AID PROCEDURES:

EYES:

IMMEDIATELY flush eyes with plenty of water for at least 15 minutes holding eyelids apart to ensure flushing of the entire eye surface. Seek medical attention IMMEDIATELY.

INGESTION:

NEVER induce vomiting or give anything by mouth to an unconscious person.
Drink promptly large quantities of milk, egg white, gelatin solution, or, if these are not available, water. Avoid alcohol.
DO NOT induce vomiting. If vomiting occurs spontaneously, give liquids again and keep airway clear.
Seek medical attention IMMEDIATELY.

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NOTE TO PHYSICIAN: Probable mucosal damage may inhibit the use of gastric lavage. Depending on the amount of product ingested, emptying the stomach should be considered.

NOTE TO PHYSICIAN: If large amounts have been ingested, treat for Borate toxicity.

INHALATION:

Persons administering first aid to overexposure victims should carefully wash off any visible product from the victim's face. Do not give anything by mouth to an unconscious person.
Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, administer oxygen. Seek medical attention.

SKIN:

Wash with plenty of water. Remove contaminated clothing and footwear. Wash clothing and decontaminated footwear before reuse.
Seek medical attention if irritation persists.

Primary Routes of Entry: Inhalation Eyes Skin Ingestion

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

EYES:

Can cause severe irritation, redness, tearing, blurred vision. Can cause substantial, temporary eye injury.

INGESTION:

Acute Toxicity (Rat): LD50 Greater than 5,000 mg/kg.
Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

INHALATION:

Material is in thick paste form. Under normal conditions, respirable material is not formed.

SKIN:

Acute Dermal Toxicity (Rabbit): LD50 Greater than 2,020 mg/kg.
Prolonged contact may result in erythema and edema.
Sensitizer: Prolonged or frequently repeated skin contact may cause an allergic reaction in some individuals.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Known.

LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY: None.

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Degrees F, Method): >200 TCC

FLAMMABLE LIMITS IN AIR (LEL/UEL, % by Volume): Non-Combustible. Limits Not Applicable.

EXTINGUISHER MEDIA: Foam, carbon dioxide, water spray, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Wear MSHA/NIOSH-approved, self-contained breathing apparatus and full protective clothing. Cool exposed containers with water.

Avoid spraying water directly into storage containers due to danger of a boilover.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None Known.

V. REACTIVITY DATA

STABILITY: Stable.

INCOMPATIBILITY: Acids, Strong oxidants.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon and Nitrogen.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Material is not known to polymerize.

CONDITIONS TO AVOID: None Known.

VI. ENVIRONMENTAL PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL: Wear appropriate protective clothing (see section VII.).

Shovel into dry containers. On loose surfaces, shovel up contaminated layer. Avoid generation of dust.

LARGE SPILL: Wear appropriate protective clothing (see Section VII).

Large spills are not likely to occur.

Shovel into dry containers. On loose surfaces, shovel up contaminated layer. Avoid generation of dust.

Follow all local, state, and federal regulations for disposal. Do not contaminate water while cleaning equipment

or disposing of wastes. Prohibit contamination of streams, lakes, or other bodies of water.

WASTE DISPOSAL METHODS: If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. Open dumping is prohibited.

Pesticide wastes are toxic. Improper disposal of excess pesticide and/or pesticide formulation rinsate is a violation of federal law.

Dispose of container in a sanitary landfill or by incineration if allowed by state and local authorities.

If incinerated, stay out of smoke.

VII. SPECIAL PROTECTION EQUIPMENT

VENTILATION REQUIREMENTS: Ventilate via mechanical methods (general or local exhaust) to maintain exposure below TLV(s), if applicable.

Good industrial hygiene practice dictates that indoor work areas should be isolated and provided with adequate local exhaust ventilation.

RESPIRATORY: If TLV for product or any component is exceeded, use a MSHA/NIOSH-approved respirator.

EYE: Chemical worker's goggles or face shield.

GLOVES: Wear impervious gloves, such as: Nitrile rubber, Neoprene, PVA, PVC, or NBR (Buna-N).

Special precautions should be taken to ensure that material cannot get inside gloves. Disposable Cotton Glove liners may also be worn.

OTHER PROTECTIVE EQUIPMENT: Wear long-sleeved shirts, long pants, and rubber boots or disposable coveralls when handling this product. The clothing should be changed daily. Impervious boots (nitrile rubber), aprons, or chemical suits should be worn when necessary to prevent skin contact. Safety showers or wash water and eyewash stations should be provided in all areas in which this product is stored and/or handled. When working in a treating plant persons exposed routinely to this material should shower prior to leaving work each day. Work clothing should be changed daily.

VIII. OTHER SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS: Store away from food or feed in a secure, well ventilated area protected from extreme temperatures. Do not transfer to an unmarked container. Keep container closed when not in use. Do not store or use in the vicinity of sparks, open flame, or other ignition sources.

Observe good personal hygiene practices. Change protective gloves/clothing when signs of contamination appear. Keep out of reach of children.

OTHER PRECAUTIONS: Wash thoroughly after skin contact and before eating, drinking, use of tobacco products, or using restrooms.

IX. ADDITIONAL INFORMATION

No additional information.

OSHA'S Hazard Communication Standard, 29CFR 1910.1200 requires that a MSDS be kept on file and distributed to employees and/or customers. If this product is used at other locations, it is your responsibility to promptly distribute this information to that location. Additional copies of the Material Safety Data Sheets are available upon request.

X. SHIPPING INFORMATION

FREIGHT CLASSIFICATION: PRESERVATIVES, WOOD, N.O.I., PASTE – NMFC 161490

This product is classified for transportation purposes as follows:

	YES	NO
IATA (Air)	X	
IMO (Water)	X	
DOT (Land)	X	

Contact Copper Care Wood Preservatives, Inc. at 888-817-0131 for any additional information.

DISCLAIMER STATEMENT:

This information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation or guarantee is made as to its accuracy, reliability, or completeness. It relates to the specific material designated and may or may not be valid for such material used in combination with any other materials or in any process. All liability for any loss damage that may occur from the use of this information is disclaimed. It is the user's responsibility to satisfy himself from other sources that this material is suitable for his own particular use. This is neither a license under any applicable patents nor an assurance of freedom from claims under pending or issued patents.