

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:  
FOR ALL MSDS QUESTIONS & REQUESTS, CALL:

PRODUCT NAME: **Wolmanized® µCu Treated Wood**

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Manufactured By:</b>	<b>REVISION DATE:</b> 12/07/2007
Northeast Treaters 201 Springfield Rd. Belchertown MA 01007 413-323-7811	<b>SUPERCEDES:</b>
	<b>MSDS Number:</b> 000000004502
	<b>SYNONYMS:</b> None
	<b>CHEMICAL FAMILY:</b>
	<b>DESCRIPTION / USE:</b> Treated Wood Products
	<b>FORMULA:</b> None established

**2. HAZARDS IDENTIFICATION**

<b>OSHA Hazard Classification:</b>	<b>Wood dust is classified as: carcinogenic, possible sensitizer, mild skin irritant, possible respiratory irritant.</b>
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<b>Routes of Entry:</b>	Inhalation, skin, eyes; ingestion
<b>Chemical Interactions:</b>	No known or reported interactions.
<b>Medical Conditions Aggravated:</b>	Inhalation of the dust from this material at concentrations above the TLV can aggravate pre-existing upper respiratory and lung diseases such as bronchitis, emphysema and asthma., Skin diseases including eczema and sensitization

Human Threshold Response Data

<b>Odor Threshold</b>	Not established for product.
<b>Irritation Threshold</b>	Not established for product.

**Hazardous Materials Identification System / National Fire Protection Association  
Classifications**

<u>Hazard Ratings :</u>	<u>Health</u>	<u>Flammability</u>	<u>Physical / Instability</u>	<u>PPI / Special hazard.</u>
HMIS	2*	1	0	
NFPA	2	1	0	

**Immediate (Acute) Health Effects**

<b>Inhalation Toxicity:</b>	Airborne treated or untreated wood dust may cause nose, throat or lung irritation.
<b>Skin Toxicity:</b>	Handling of wood may result in skin exposure to splinters. Prolonged and/or repeated contact with treated or untreated wood dust may result in mild irritation.
<b>Eye Toxicity:</b>	Treated or untreated wood dust may cause mechanical irritation.
<b>Ingestion Toxicity:</b>	Not expected to be a route of exposure in normal industrial use.
<b>Acute Target Organ Toxicity:</b>	Skin, Eyes, Respiratory Tract

**Prolonged (Chronic) Health Effects**

<b>Carcinogenicity:</b>	IARC has classified untreated hardwood and hardwood/softwood mix wood dust as a Group 1 human carcinogen. The wood dust classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with occupational exposures to untreated wood dust. NTP has classified all untreated wood dust as a carcinogen.
<b>Reproductive and Developmental Toxicity:</b>	Not known or reported to cause reproductive or developmental toxicity.
<b>Inhalation:</b>	May cause respiratory sensitization and/or irritation.
<b>Skin Contact:</b>	Treated or untreated wood dust, depending on the species, may cause dermatitis on prolonged, repetitive contact.
<b>Ingestion:</b>	Not expected to be a route of exposure in normal industrial use.
<b>Sensitization:</b>	Various species of untreated wood dust can elicit an allergic respiratory response in sensitized persons. Various species of untreated wood dust can elicit an allergic type skin irritation in sensitized persons.

Chronic Target Organ Toxicity: Respiratory Tract, Skin, Eyes  
 Supplemental Health Hazard Information : No additional health information available.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
Wood Dust	Not Assigned	95 - 99.75
Formaldehyde (by-product of the untreated plywood article)	50-00-0 (Only applies to plywood products)	0 - 0.1
BASIC COPPER CARBONATE	12069-69-1	0.175 - 3.51

**4. FIRST AID MEASURES**

**Inhalation:** IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. If not breathing, give artificial respiration. Call for medical assistance.

**Skin Contact:** IF ON SKIN: Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops.

**Eye Contact:** IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.

**Ingestion:** IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person.

**5. FIRE FIGHTING MEASURES**

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<b>Flammability Summary (OSHA):</b>	Product is not known to be flammable, combustible, pyrophoric or explosive.
<b><u>Flammable Properties</u></b>	
Flash Point:	No data.
Autoignition Temperature:	No data.
Fire / Explosion Hazards:	If the product is involved in a fire, toxic smokes could develop. Dust may be ignitable if mixed with air in the presence of an ignition source.
Extinguishing Media:	Water spray
Fire Fighting Instructions:	In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.
Hazardous Combustion Products:	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion., Hazardous combustion/decomposition products may include but are not limited to:, Copper Fumes, Copper metal and copper oxides
Upper Flammable / Explosive Limit, % in air:	No data.
Lower Flammable / Explosive Limit, % in air:	No data.

**6. ACCIDENTAL RELEASE MEASURES**

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<b>Personal Protection for Emergency Situations:</b>	No extra protection required beyond that listed in Section 8. In case of fire, use normal fire fighting equipment.
<b><u>Spill Mitigation Procedures</u></b>	
Air Release:	Hazardous concentrations in air may be found in local spill area and immediately downwind. Contain all solids for treatment or disposal.
Water Release:	This material is insoluble in water. Notify all downstream users of possible contamination. Contain all solids for treatment or disposal.
Land Release:	Avoid dust generation. Contain all solids for treatment or disposal.

**Additional Spill Information :** Remove all sources of ignition. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

## **7. HANDLING AND STORAGE**

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**Handling:** DO NOT BURN TREATED WOOD. Whenever possible, sawing or machining treated or untreated wood should be performed outdoors to avoid accumulations of airborne wood dust. Wear gloves, eye protection, dust mask and protective clothing. Do not use treated chips or sawdust as mulch. Wash hands thoroughly before eating, drinking, using tobacco products, and/or using restrooms.

**Storage:** Keep away from unguarded flame, sparks, and heat sources. Protect from physical damage. Maintain good housekeeping.

**Incompatible Materials for Storage:** oxidizers strong acids and bases

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**Ventilation:** Whenever possible, sawing or machining treated or untreated wood should be performed outdoors or in well ventilated areas to avoid accumulations of airborne wood dust. Ventilation should be sufficient to maintain exposures below the recommended exposure limits.

### **Protective Equipment for Routine Use of Product**

**Respiratory Protection :** When sawing or cutting treated or untreated wood, wear a NIOSH approved P95 or P100 Particulate filter respirator. FOR PLYWOOD PRODUCTS ONLY: Wear a NIOSH approved P100 particulate filter respirator, and if formaldehyde vapor levels exceed the recommended exposure limits, wearing a NIOSH approved respirator is required. Formaldehyde is a by-product of the untreated plywood article and not the result of this treatment.

**Respirator Type :** For plywood products only: A NIOSH approved full-face air purifying respirator with combination formaldehyde/organic

vapor cartridge and a P100 filter. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

- Skin Protection :** Wear leather gloves. Wear long sleeve shirt, pants, and steel-toed shoes when handling treated or untreated wood.
- Eye Protection:** Use safety glasses with side shields or chemical goggles when sawing or cutting treated or untreated wood.
- Protective Clothing Type:** Wear leather gloves.

Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
Wood Dust		OSHA Z1	15.0 mg/m <sup>3</sup> PEL Total dust.A state-run OSHA program may have more stringent limits for wood dust and/or PNOR.
Wood Dust		OSHA Z1	5.0 mg/m <sup>3</sup> PEL Respirable fraction.A state-run OSHA program may have more stringent limits for wood dust and/or PNOR.
Wood Dust		ACGIH	1.0 mg/m <sup>3</sup> TWA Inhalable fraction.(Western Red Cedar)
Wood Dust		ACGIH	1.0 mg/m <sup>3</sup> TWA Inhalable fraction.(All other species)
Formaldehyde (by-product of the untreated plywood article)	50-00-0	ACGIH	0.3 ppm Ceiling(Only applies to plywood products.)
Formaldehyde (by-product of the untreated plywood article)	50-00-0	OSHA	Reference: (Only applies to plywood products.)
Formaldehyde (by-product of the untreated plywood article)	50-00-0	OSHA	0.75 ppm TWA(Only applies to plywood products.)
Formaldehyde (by-product of the untreated plywood article)	50-00-0	OSHA	2 ppm STEL(Only applies to plywood products.)
Formaldehyde (by-product of the untreated plywood article)	50-00-0	OSHA	0.5 ppm OSHA_ACT(Only applies to plywood products.)
Formaldehyde (by-product of the untreated plywood article)	50-00-0	NIOSH-IDLH	20 ppm (Only applies to plywood products.)

<b>BASIC COPPER CARBONATE</b>	<b>12069-69-1</b>	<b>NIOSH-IDLH</b>	<b>100 mg/m3</b>
		<b>ACGIH</b>	<b>0.2 mg/m3 TWA Fume.(Value for copper fume.)</b>
		<b>OSHA Z1</b>	<b>0.1 mg/m3 PEL Fume.(Value for copper fume.)</b>

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	<b>solid</b>
<b>Form</b>	<b>solid</b>
<b>Color:</b>	<b>slightly, green</b>
<b>Odor:</b>	<b>None</b>
<b>Molecular Weight:</b>	<b>None established</b>
<b>Specific Gravity :</b>	<b>Not applicable</b>
<b>pH :</b>	<b>Not applicable</b>
<b>Boiling Point:</b>	<b>Not applicable</b>
<b>Freezing Point:</b>	<b>Not applicable</b>
<b>Melting Point:</b>	<b>No data</b>
<b>Density:</b>	<b>solid</b>
<b>Vapor Pressure:</b>	<b>Not applicable</b>
<b>Vapor Density:</b>	<b>Not applicable</b>
<b>Viscosity:</b>	<b>Not applicable</b>
<b>Fat Solubility:</b>	<b>No data</b>
<b>Solubility in Water:</b>	<b>insoluble</b>
<b>Partition coefficient n-octanol/water:</b>	<b>No data</b>
<b>Evaporation Rate:</b>	<b>Not applicable</b>
<b>Oxidizing:</b>	<b>The substance has no oxidizing properties</b>
<b>Volatiles, % by vol.:</b>	<b>No data</b>
<b>VOC Content</b>	<b>No data</b>
<b>HAP Content</b>	<b>No data</b>

## **10. STABILITY AND REACTIVITY**

<b>Stability and Reactivity Summary:</b>	<b>Stable under normal conditions. Product will not undergo hazardous polymerization.</b>
<b>Conditions to Avoid:</b>	<b>Sparks, open flame, other ignition sources, and elevated temperatures., Contact with incompatible substances</b>
<b>Chemical Incompatibility:</b>	<b>strong acids, oxidizers</b>
<b>Hazardous Decomposition Products:</b>	<b>During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion</b>

Decomposition Temperature: generated by thermal decomposition or combustion.  
No data

## **11. TOXICOLOGICAL INFORMATION**

### **Component Animal Toxicology**

**Oral LD50 value:**  
BASIC COPPER LD50 = 1,350 mg/kg Rat  
CARBONATE

**Dermal LD50 value:**  
BASIC COPPER No data  
CARBONATE

**Inhalation LC50 value:**  
BASIC COPPER No data  
CARBONATE

### **Product Animal Toxicity**

**Oral LD50 value:** LD50 Believed to be > 5,000 mg/kg Rat  
**Dermal LD50 value:** LD50 Believed to be > 2,000 mg/kg Rabbit  
**Inhalation LC50 value:** No data

**Skin Irritation:** Prolonged and/or repeated contact with treated or untreated wood dust may result in mild irritation.

**Eye Irritation:** Treated or untreated wood dust may cause mechanical irritation.

**Skin Sensitization:** Various species of untreated wood dust can elicit an allergic respiratory response in sensitized persons., Various species of untreated wood dust can elicit an allergic type skin irritation in sensitized persons.

**Subchronic / Chronic Toxicity:** May cause respiratory sensitization and/or irritation., Treated or untreated wood dust, depending on the species, may cause dermatitis on prolonged, repetitive contact.

**Reproductive and Developmental Toxicity:** Not known or reported to cause reproductive or developmental toxicity.

**Mutagenicity:** Not known or reported to be mutagenic.

**Carcinogenicity:** IARC has classified untreated hardwood and hardwood/softwood mix wood dust as a Group 1 human carcinogen. The wood dust classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with occupational exposures to untreated wood dust. NTP has classified all untreated wood dust as a carcinogen.

**12. ECOLOGICAL INFORMATION**

Overview: No aquatic toxicity data is available for this product.

**13. DISPOSAL CONSIDERATIONS**

**CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.**

Waste Disposal Summary : If this product becomes a waste, it will be a nonhazardous waste according to U.S. RCRA regulations. Dispose of in accordance with all Local, State, Federal, and Provincial Environmental Regulations.

Disposal Methods : Dispose of in a permitted industrial waste landfill following Federal, State Local, or Provincial regulations.

Potential US EPA Waste Codes : Not applicable

**14. TRANSPORT INFORMATION**

Land (US DOT): NOT REGULATED AS A DOT HAZARDOUS MATERIAL

Water (IMDG): NOT REGULATED AS A HAZARDOUS MATERIAL,

Flash Point: No data.

Air (IATA): NOT REGULATED AS A HAZARDOUS MATERIAL,  
Emergency Response Guide Number: Not applicable

**15. REGULATORY INFORMATION**

**UNITED STATES:**

Toxic Substances Control Act (TSCA):

This item is exempt from TSCA and FIFRA under the treated article exemption per 40 CFR 152.25(a).

EPA Pesticide Registration Number:

None established

FIFRA Listing of Pesticide Chemicals Not registered in the US under FIFRA.  
(40 CFR 180):

**Superfund Amendments and Reauthorization Act (SARA) Title III:**

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health	Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard
Physical	None

**Emergency Planning & Community Right to Know (40 CFR 355, App. A):**

**Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:**

SARA III	Threshold Planning Quantity:	None established
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**Reportable Quantity (49 CFR 172.101, Appendix):**

CERCLA	Reportable quantity:	None established
SARA III	Reportable quantity:	None established

**Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components**

SARA III	De minimis concentration:	<b>COPPER COMPOUNDS (WITH EXCEPTIONS)</b> Value: 1.0%
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**Clean Air Act Toxic ARP Section 112r:**

CAA 112R	None established
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**Clean Air Act Socmi:**

HON SOC	None established
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**Clean Air Act VOC Section 111:**

CAA 111	None established
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**Clean Air Act Haz. Air Pollutants Section 112:**

CAA	None established
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CAA 112I	None established
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CAA AP	None established
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**State Right-to-Know Regulations Status of Ingredients  
Pennsylvania:**

CAS #	COMPONENT NAME
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34590-94-8	Propanol, (2, methoxy-methylethoxy-)
50-00-0	Formaldehyde (by-product of the untreated plywood article)
7632-00-0	Sodium Nitrite

**PENN RTK**

**US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)**

**PENN RTK  
08 1989  
PROPANOL, (2-METHOXYMETHYLETHOXY)-**

**US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)**

**PENN RTK  
08 1989  
FORMALDEHYDE**

**US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)**

**PENN RTK  
08 1989  
NITROUS ACID, SODIUM SALT**

**New Jersey:**

<b>CAS #</b>	<b>COMPONENT NAME</b>
12069-69-1	BASIC COPPER CARBONATE
60207-90-1	Propiconazole
50-00-0	Formaldehyde (by-product of the untreated plywood article)
7632-00-0	Sodium Nitrite

**NJ RTK**

**US. New Jersey Community Right-To-Know Survey, Table A: NJ Environmental Hazardous Substances [EHS] List (N.J. Admin. Code Title 7 Section 1G-2.1)**

**NJ RTK  
2001  
Substance no. 2215  
COPPER COMPOUNDS [EXCEPT: C.I. PIGMENT BLUE 15, C.I. PIGMENT GREEN 7, AND C.I. PIGMENT GREEN 36]**

**US. New Jersey Community Right-To-Know Survey, Table A: NJ Environmental Hazardous Substances [EHS] List (N.J. Admin. Code Title 7 Section 1G-2.1)**

**NJ RTK**

2001  
 Substance no. 3442  
**PROPICONAZOLE (1-[2-(2,4-DICHLOROPHENYL)-4-PROPYL-1,3-DIOXOLAN-2-YL]-METHYL-1H-1,2,4-TRIAZOLE)**

US. New Jersey Community Right-To-Know Survey, Table A: NJ Environmental  
 Hazardous Substances [EHS] List (N.J. Admin. Code Title 7 Section 1G-2.1)

~~NJ RTK~~

2001  
 Substance no. 0946  
**FORMALDEHYDE**

US. New Jersey Community Right-To-Know Survey, Table A: NJ Environmental  
 Hazardous Substances [EHS] List (N.J. Admin. Code Title 7 Section 1G-2.1)

NJ RTK  
 10 2006  
 Substance no. 2258  
**SODIUM NITRITE**

**Massachusetts:**

CAS #	COMPONENT NAME
34590-94-8	Propanol, (2, methoxy-methylethoxy-)
50-00-0	Formaldehyde (by-product of the untreated plywood article)
7632-00-0	Sodium Nitrite

MASS RTK

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105  
 Code of Massachusetts Regulations Section 670.000)

MASS RTK  
 04 1993  
**DIPROPYLENE GLYCOL METHYL ETHER**

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105  
 Code of Massachusetts Regulations Section 670.000)

MASS RTK  
 04 1993  
**FORMALDEHYDE FORMALIN**

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105  
 Code of Massachusetts Regulations Section 670.000)

MASS RTK

04 1993  
SODIUM NITRITE

**California Proposition 65:**

CAS #	COMPONENT NAME
50-00-0	Formaldehyde (by-product of the untreated plywood article)

US CA CRT                      Carcinogenic.

**US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)**

US CA CRT  
12 2005  
Hazard Designation:  
Listed: January 1, 1988  
FORMALDEHYDE (GAS)  
Carcinogenic.

US CA65CRT                      None established

**WHMIS Hazard Classification:  
WHMIS**

**Canada. Canadian Environmental Protection Act (CEPA). WHMIS Ingredient  
Disclosure List (Can. Gaz., Part II, Vol. 122, No. 2)**

WHMIS  
01 1988  
Threshold limits: 1%  
English List no. 428  
COPPER(II) CARBONATE HYDROXIDE

**Canada. Canadian Environmental Protection Act (CEPA). WHMIS Ingredient  
Disclosure List (Can. Gaz., Part II, Vol. 122, No. 2)**

WHMIS  
01 1988  
Threshold limits: 1%  
English List no. 669  
DIPROPYLENE GLYCOL METHYL ETHER

**Canada. Canadian Environmental Protection Act (CEPA). WHMIS Ingredient  
Disclosure List (Can. Gaz., Part II, Vol. 122, No. 2)**

WHMIS  
01 1988

Threshold limits: 0.1%  
English List no. 781  
FORMALDEHYDE

Canada. Canadian Environmental Protection Act (CEPA). WHMIS Ingredient  
Disclosure List (Can. Gaz., Part II, Vol. 122, No. 2)

WHMIS  
01 1988

Threshold limits: 1%  
English List no. 1453  
SODIUM NITRITE

## **16. OTHER INFORMATION**

**MSDS REVISION STATUS :** Revised to meet the ANSI standard of 16 sections

**Major References :** Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. THE MANUFACTURER BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS.