MATERIAL SAFETY DATA SHEET

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

PRODUCT NAME: **Wolmanized® µCA-C Treated Wood**

1. PRODUCT AND COMPANY IDENTIFICATION

Manufactured By:

REVISION DATE: 01/28/2008
SUPERCEDES:

MSDS Number: 000000004502
SYNONYMS: None
CHEMICAL FAMILY:
DESCRIPTION / USE: Treated Wood Products
FORMULA: None established

2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:	**Wood dust is classified as: carcinogenic, possible sensitizer, mild skin irritant, possible respiratory irritant.**

Routes of Entry: Inhalation, skin, eyes, ingestion
Chemical Interactions: No known or reported interactions.
Medical Conditions Aggravated: 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

Odor Threshold: Not established for product.

Irritation Threshold: Not established for product.

Hazardous Materials Identification System / National Fire Protection Association Classifications

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

Immediate (Acute) Health Effects

Inhalation Toxicity:	Airborne treated or untreated wood dust may cause nose, throat or lung irritation.
Skin Toxicity:	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.
Eye Toxicity:	Treated or untreated wood dust may cause mechanical irritation.
Ingestion Toxicity:	Not expected to be a route of exposure in normal industrial use.
Acute Target Organ Toxicity:	Skin, Eyes, Respiratory Tract

Prolonged (Chronic) Health Effects

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.
Reproductive and Developmental Toxicity:	Not known or reported to cause reproductive or developmental toxicity.
Inhalation:	May cause respiratory sensitization and/or irritation.
Skin Contact:	Treated or untreated wood dust, depending on the species, may cause dermatitis on prolonged, repetitive contact.
Ingestion:	Not expected to be a route of exposure in normal industrial use.
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.

Chronic Target Organ Toxicity: Respiratory Tract, Skin, Eyes

Supplemental Health Hazard Information : No additional health information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME	CAS #	% RANGE
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

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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

Flammability Summary (OSHA):	Product is not known to be flammable, combustible, pyrophoric or explosive.

Flammable Properties

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

Personal Protection for Emergency Situations:	No extra protection required beyond that listed in Section 8. In case of fire, use normal fire fighting equipment.

Spill Mitigation Procedures

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

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

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

CHEMICAL NAME	CAS #	Name of Limit	Exposure
Wood Dust		OSHA Z1	15.0 mg/m3 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/m3 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/m3 TWA Inhalable fraction.(Western Red Cedar)
Wood Dust		ACGIH	1.0 mg/m3 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.)
BASIC COPPER CARBONATE	12069-69-1	NIOSH-IDLH	100 mg/m3
.		ACGIH	0.2 mg/m3 TWA Fume.(Value for copper fume.)
.		OSHA Z1	0.1 mg/m3 PEL Fume.(Value for copper fume.)

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions. Product will not undergo hazardous polymerization.
Conditions to Avoid:	Sparks, open flame, other ignition sources, and elevated temperatures., Contact with incompatible substances
Chemical Incompatibility:	strong acids, oxidizers
Hazardous Decomposition Products:	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Decomposition Temperature:	No data

11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

BASIC COPPER CARBONATE	LD50 = 1,350 mg/kg Rat

Dermal LD50 value:

BASIC COPPER CARBONATE	No data

Inhalation LC50 value:

BASIC COPPER CARBONATE	No data

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 (40 CFR 180):	Not registered in the US under FIFRA.

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

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:	COPPER COMPOUNDS (WITH EXCEPTIONS) Value: 1.0%

Clean Air Act Toxic ARP Section 112r:

CAA 112R None established

Clean Air Act Socmi:

HON SOC None established

Clean Air Act VOC Section 111:

CAA 111 None established

Clean Air Act Haz. Air Pollutants Section 112:

CAA None established

CAA 112I None established

CAA AP None established

State Right-to-Know Regulations Status of Ingredients

Pennsylvania:

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

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:

CAS #	COMPONENT NAME
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.