



FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:	1-800-654-6911 (OUTSIDE USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:	1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)
FOR ALL MSDS QUESTIONS & REQUESTS, CALL:	1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

PRODUCT NAME: **Wolman® E μCA-C Treating Solution**

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Arch Treatment Technologies, Inc. 5660 New Northside Drive, NW Suite 1100 Atlanta, GA 30328</b>	REVISION DATE:	09/14/2009
	SUPERCEDES:	01/23/2009
	MSDS Number:	000000004501
	SYNONYMS:	
	CHEMICAL FAMILY:	Aqueous solution
	DESCRIPTION / USE:	For pressure treatment of wood and wood products
FORMULA:	None established	

### 2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:	<b>Mild skin irritant, Moderate to Severe Eye Irritant, Mucous membrane irritant</b>
-----------------------------	--

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

#### 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

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



Immediate (Acute) Health Effects

Inhalation Toxicity: Inhalation of mist or vapor may cause irritation to the mucous membranes of the respiratory tract. Any irritation would be transient with no permanent damage expected.

Skin Toxicity: Skin contact may cause mild reversible irritation consisting of transient redness. This irritant effect would not be expected to result in permanent damage. Not expected to be toxic from dermal contact.

Eye Toxicity: May cause moderate to severe irritation, consisting of redness, swelling, and mucous membrane discharge to the conjunctiva. No corneal involvement or visual impairment is expected.

Ingestion Toxicity: Ingestion may cause irritation of the gastrointestinal tract and gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting or diarrhea. Not expected to be toxic by ingestion.

Acute Target Organ Toxicity: This product is moderately to severely irritating to the eyes, slightly irritating to the skin and upon inhalation, may cause moderate irritation to mucous membranes of the respiratory tract. Ingestion may cause gastrointestinal discomfort.

Prolonged (Chronic) Health Effects

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

Reproductive and Developmental Toxicity: There are no known or reported effects on reproductive function or fetal development.

Inhalation: There are no known or reported effects from chronic exposure except for effects similar to those experienced from acute exposure.

Skin Contact: Prolonged or repeated dermal contact may cause redness, a burning sensation and drying and cracking of the skin.

Ingestion: There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure.

Sensitization: This material is not known or reported to be a skin or respiratory sensitizer.

Chronic Target Organ Toxicity: This product has not been tested. However, chronic (repeated) exposures to this product would be expected to produce similar effects as seen from acute exposures.

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>
BASIC COPPER CARBONATE	12069-69-1	0.175 - 3.51
Water	7732-18-5	95 - 99.75



## 4. FIRST AID MEASURES

---

General Advice:	Call a poison control center or doctor for treatment advice. For 24-hour emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
Inhalation:	IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Skin Contact:	IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Eye Contact:	IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Ingestion:	IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not 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.
<u>Flammable Properties</u>	
Flash Point:	Not applicable
Autoignition Temperature:	Not applicable
Fire / Explosion Hazards:	Material will not ignite or burn. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.
Extinguishing Media:	Not Applicable. - Choose extinguishing media suitable for surrounding materials.
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 metal and copper oxides, Carbon monoxide, Carbon dioxide, Silicon dioxide, Formaldehyde, Oxides of nitrogen

Upper Flammable / Explosive Limit, % in air: Not applicable  
Lower Flammable / Explosive Limit, % in air: Not applicable

## 6. ACCIDENTAL RELEASE MEASURES

---

Personal Protection for Emergency Situations: Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.

### Spill Mitigation Procedures

Air Release: Hazardous concentrations in air may be found in local spill area and immediately downwind. Vapors may be suppressed by the use of water fog. Contain all liquids for treatment or disposal.

Water Release: This material is dispersible in water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. Contain all liquids for treatment or disposal.

Land Release: Create a dike or trench to contain materials. Absorb spill with inert material (e.g., dry sand, clay, earth or commercial absorbent), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Contain all liquids for treatment or disposal.

Additional Spill Information : Stop source of spill as soon as possible and notify appropriate personnel. 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: An eye wash and safety shower should be provided in the immediate work area. Avoid contact with material, avoid breathing dusts or fumes, use only in a well ventilated area. Do not take internally. Avoid contact with skin, eyes and clothing by wearing proper protective equipment. Upon contact with skin or eyes, wash off with water. Label containers and keep them tightly closed when not in use. Wash hands thoroughly before eating, drinking, using tobacco products, and/or using restrooms.

Storage: Store in a cool dry ventilated location, away from oxidizers, heat, flame, or other incompatible conditions. Keep container(s) closed. Do not store near feed, food, or within the reach of children. Do not freeze. Keep product tightly sealed in original containers.

Incompatible Materials for Storage: strong acids and bases oxidizers



Empty Container Warning: Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death. Offer empty container for recycling or dispose of in accordance with all federal, state, or local requirements. If empty containers are disposed (not recycled), containers must be triple rinsed to ensure removal of all product. All rinse water should always be directed into a sump or pit that is pumped back to the makeup water tank. All product labels should be removed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are necessary when handling or using this product.

Protective Equipment for Routine Use of Product

Respiratory Protection : Wear a NIOSH approved respirator.
Respirator Type : Wear a NIOSH approved N100 particulate respirator.
Skin Protection : Wear impervious gloves to avoid skin contact. A safety shower should be provided in the immediate work area.
Eye Protection: Use chemical goggles. Emergency eyewash should be provided in the immediate work area.
Protective Clothing Type: Impervious

Exposure Limit Data

Table with 4 columns: CHEMICAL NAME, CAS #, Name of Limit, Exposure. Rows include BASIC COPPER CARBONATE with various exposure limits like PEL, TWA, and NIOSH-IDLH.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid
Form: suspension
Color: light, green
Odor: almost odourless
Molecular Weight: None established
Specific Gravity : 1.0005 - 1.028
pH : 9.0 - 9.4



Boiling Point: 100 DEG°C  
 Freezing Point: 4 DEG°C / 39 DEG°F  
 Melting Point: Not applicable  
 Density: 8.34 - 8.57lb/gal  
 Vapor Pressure: No data  
 Vapor Density: No data  
 Viscosity: 3 - 5 CPS  
 Fat Solubility: No data  
 Solubility in Water: dispersible  
 Partition coefficient n-octanol/water: No data.  
 Evaporation Rate: No data  
 Oxidizing: Product has oxidizing properties.  
 Volatiles, % by vol.: Approximately Water  
 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., Avoid freezing.  
 Chemical Incompatibility: strong acids, strong bases, oxidizers  
 Hazardous Decomposition 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 metal and copper oxides, Carbon monoxide, Carbon dioxide, Silicon dioxide, Formaldehyde, Oxides of nitrogen  
 Decomposition Temperature: 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 available  
 CARBONATE

Inhalation LC50 value:  
 BASIC COPPER no data available  
 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



<u>Inhalation LC50 value:</u>	No data
Skin Irritation:	This material is expected to be slightly irritating.
Eye Irritation:	This material is expected to be moderately to severely irritating.
Skin Sensitization:	This material is not known or reported to be a skin or respiratory sensitizer.
Acute Toxicity:	This product is moderately to severely irritating to the eyes, slightly irritating to the skin and upon inhalation, may cause moderate irritation to mucous membranes of the respiratory tract. Ingestion may cause gastrointestinal discomfort. Ingestion of large quantities of this material may result in liver damage, based on animal studies.
Subchronic / Chronic Toxicity:	This product has not been tested. However, chronic (repeated) exposures to this product would be expected to produce similar effects as seen from acute exposures.
Reproductive and Developmental Toxicity:	Not known or reported to cause reproductive or developmental toxicity.
Mutagenicity:	Not known or reported to be mutagenic.
Carcinogenicity:	This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

## 12. ECOLOGICAL INFORMATION

Overview:	Toxic to fish and other aquatic organisms., Toxic to wildlife and domestic animals., Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.
-----------	--

## 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 :	Spent or discarded material is not expected to be a hazardous waste.
--------------------------	--



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: Not applicable
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 product is a diluted mixture of one or more Registered Pesticides and is regulated by FIFRA (Canada-PMRA).

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
Physical None

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

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

ZUS\_SAR302 TPQ (threshold planning quantity) None established

Reportable Quantity (49 CFR 172.101, Appendix):

ZUS\_CERCLA Reportable quantity COPPER AND COMPOUNDS
Value: Sodium nitrite
Value: 100lbs

ZUS\_SAR302 Reportable quantity None established

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

ZUS\_SAR313 De minimis concentration Copper compounds (Non-carcinogenic)
Value: 1%
Copper Compounds
Value: < 1% by weight
Propiconazole
1-[2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-





y)]-methyl-1H-1,2,4,-triazole  
Value: < 1% by weight  
Sodium nitrite  
Value: < 1% by weight

**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:**

ZUS\_CAAHAP None established

ZUS\_CAAHRP None established

CAA AP None established

**State Right-to-Know Regulations Status of Ingredients**

**Pennsylvania:**

CAS #	COMPONENT NAME
12069-69-1	BASIC COPPER CARBONATE
34590-94-8	Propanol, (2, methoxy-methylethoxy-)
7632-00-0	Sodium Nitrite

ZUSPA\_RTK

Pennsylvania: Hazardous substance list  
1990-01-01  
COPPER COMPOUNDS  
Environmental hazard, hazardous substance

Pennsylvania: Hazardous substance list  
1989-08-11  
PROPANOL, (2-METHOXYMETHYLETHOXY)-

Pennsylvania: Hazardous substance list  
1989-08-11  
NITROUS ACID, SODIUM SALT  
Environmental hazard

**New Jersey:**

CAS #	COMPONENT NAME
12069-69-1	BASIC COPPER CARBONATE
34590-94-8	Propanol, (2, methoxy-methylethoxy-)



60207-90-1	Propiconazole
7632-00-0	Sodium Nitrite

ZUSNJ\_RTK

New Jersey Right to Know Hazardous Substance List (RTK-HSL)  
 1989-12-01  
 COPPER compounds  
 hazardous substance

New Jersey Right to Know Hazardous Substance List (RTK-HSL)  
 1989-12-01  
 COPPER, all inorganic compounds of  
 hazardous substance

New Jersey Right to Know Hazardous Substance List (RTK-HSL)  
 2007-03-01  
 COPPER COMPOUNDS

New Jersey Right to Know Hazardous Substance List (RTK-HSL)  
 2007-03-01  
 DIPROPYLENE GLYCOL METHYL ETHER PROPANOL, 1(or 2)-(2-METHOXYMETHYLETHOXY)- (2-METHOXYMETHYLETHOXY) PROPANOL

New Jersey Right to Know Hazardous Substance List (RTK-HSL)  
 2007-03-01  
 PROPICONAZOLE 1H-1,2,4-TRIAZOLE, 1-[[2-(2,4-DICHLOROPHENYL)-4-PROPYL-1,3-DIOXOLAN-2-YL]METHYL]-

New Jersey Right to Know Hazardous Substance List (RTK-HSL)  
 2007-03-01  
 SODIUM NITRITE NITROUS ACID, SODIUM SALT

**Massachusetts:**

CAS #	COMPONENT NAME
34590-94-8	Propanol, (2, methoxy-methylethoxy-)
7632-00-0	Sodium Nitrite

ZUSMA\_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications  
 1993-04-24  
 DIPROPYLENE GLYCOL METHYL ETHER

Massachusetts Right to Know List of Chemicals and Hazard Classifications  
 1993-04-24  
 SODIUM NITRITE



**California Proposition 65:**

CAS #	COMPONENT NAME
ZUSCA_P65	None established

**WHMIS Hazard Classification:**

Ingredient Disclosure List (WHMIS)

2007-08-24

Threshold limits: 1 Weight %

985

Copper(II) carbonate hydroxide

Ingredient Disclosure List (WHMIS)

2007-08-24

Threshold limits: 1 Weight %

821

Dipropylene glycol methyl ether

Ingredient Disclosure List (WHMIS)

2007-08-24

Threshold limits: 1 Weight %

1218

Sodium nitrite

**16. OTHER INFORMATION**

MSDS REVISION STATUS : Revised to meet the ANSI standard of 16 sections  
SECTIONS REVISED: 1  
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. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .