



SAFETY DATA SHEET

Issue Date 20-May-2015

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Version 1

1. IDENTIFICATION

Product identifier

Product Name

Wolman® E (μCA-C)

Other means of identification

Product Code 23821
UN/ID no UN3082
Synonyms No information available
Registration Number(s) 75506-12

Recommended use of the chemical and restrictions on use

Recommended Use Wood Preservative.

Details of the supplier of the safety data sheet

Supplier Address

Arch Treatment Technologies, Inc.
360 Interstate North Parkway, Suite 450
Atlanta, GA 30339

Emergency telephone number

Company Phone Number 1-800-511-MSDS (Outside USA: 1-423-780-2347)
24 Hour Emergency Phone Number 1-800-654-6911 (Outside USA: 1-423-780-2970)
Emergency Telephone For all transportation accidents call Chemtrec 1-800-424-9300 (Outside USA: 1-703-527-3887)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2

Label elements

Emergency Overview

Danger

Hazard statements

Suspected of damaging fertility or the unborn child
Causes serious eye damage
Harmful if swallowed



Physical state liquid

Odor Slight

Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 Specific treatment (see first aid section on this label)
 IF ON SKIN: Wash with plenty of soap and water
 If skin irritation or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful in contact with skin Very toxic to aquatic life with long lasting effects

Unknown acute toxicity

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Synonyms

No information available.

Chemical Name	CAS No	Weight-%	Trade Secret
(Copper (II) carbonate-copper(II) hydroxide (1:1))	12069-69-1	43.4	
sodium nitrite	7632-00-0	1 - 5	*
Propiconazole	60207-90-1	0.5	
Tebuconazole	107534-96-3	0.5	
Copper sulfate	7758-98-7	0.1 - 1	

4. FIRST AID MEASURES

Description of first aid measures

General advice	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin contact	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Remove to fresh air. Call a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
Ingestion	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting.
Self-protection of the first aider	Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11: TOXICOLOGICAL INFORMATION.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO₂). Water spray or fog.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂). Toxic gas. Nitrogen oxides (NO_x).

Explosion data

Sensitivity to Mechanical Impact Warning.

Sensitivity to Static Discharge Warning.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12: ECOLOGICAL INFORMATION.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Use personal protective equipment as required. Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
(Copper (II) carbonate--copper(II) hydroxide (1:1)) 12069-69-1	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist
Copper sulfate 7758-98-7	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	Odor	Slight
Appearance	No information available	Odor threshold	No information available
Color	green		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	8.8	
Melting point / freezing point	-15 °C / 5 °F	
Boiling point / boiling range	No information available	
Flash point	> 94 °C / > 201 °F	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	1.52	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	348 CPS	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	Not applicable
Density	12.68
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Avoid breathing vapors or mists.
Eye contact	Causes serious eye damage.
Skin contact	Avoid contact with skin and clothing.
Ingestion	Harmful if swallowed. Contains a known or suspected reproductive toxin.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
(Copper (II) carbonate--copper(II) hydroxide (1:1)) 12069-69-1	= 1350 mg/kg (Rat)	>2000 mg/kg (Rat)	1.03 - 5.2 mg/L 4h (Rat)
sodium nitrite 7632-00-0	= 85 mg/kg (Rat)	-	= 5.5 mg/L (Rat) 4 h
Propiconazole 60207-90-1	= 1517 mg/kg (Rat)	> 4 g/kg (Rat)	>5.8 mg/L LC50 4h (Rat)
Tebuconazole 107534-96-3	1700 - 4000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5000 mg/m ³ (Rat) 4 h
Copper sulfate 7758-98-7	= 300 mg/kg (Rat)	= 1000 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Serious eye damage/eye irritation Risk of serious damage to eyes.
Developmental Toxicity Contains ingredients that have suspected developmental hazards.
Chronic toxicity May cause adverse liver effects.
Target Organ Effects Eyes, kidney, liver, Respiratory system, Skin.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 1 759.00 mg/kg
ATEmix (dermal) 4 613.00 mg/kg
ATEmix (inhalation-gas)
ATEmix (inhalation-dust/mist) 2.37 mg/l
ATEmix (inhalation-vapor)

Numerical measures of toxicity

Oral LD50 1030 mg/kg (rat)
Dermal LD50 > 5050 mg/kg (rat)
Inhalation LC50 5.17 mg/l rat

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Very toxic to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
(Copper (II) carbonate--copper(II) hydroxide (1:1)) 12069-69-1	0.0236 mg/L EC50 96h (Scenedesmus subspicatus)	0.048 mg/L LC50 96h (Oncorhynchus mykiss)	0.0229 mg/L EC50 48h (Daphnia magna)

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
sodium nitrite 7632-00-0	-3.7

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Disposal of wastes**

This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261).

Contaminated packaging

Do not reuse container. Empty containers must be triple rinsed prior to disposal.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
(Copper (II) carbonate--copper(II) hydroxide (1:1)) 12069-69-1	Toxic
sodium nitrite 7632-00-0	Toxic Ignitable Reactive
Copper sulfate 7758-98-7	Toxic

14. TRANSPORT INFORMATION**DOT**

UN/ID no UN3082
Proper shipping name Other regulated substances, liquid, n.o.s.
Hazard Class 9
Packing Group III
Special Provisions 8, 146, 173, 335, IB3, T4, TP1, TP29
Description UN3082, Other regulated substances, liquid, n.o.s. ((Copper (II) carbonate--copper(II) hydroxide (1:1))), 9, III
Emergency Response Guide Number 171

TDG

UN/ID no UN3082
Proper shipping name Other regulated substances, liquid, n.o.s.
Hazard Class 9
Packing Group III
Description UN3082, Other regulated substances, liquid, n.o.s. ((Copper (II) carbonate--copper(II) hydroxide (1:1))), 9, III

MEX

UN/ID no UN3082
Proper shipping name Other regulated substances, liquid, n.o.s.
Hazard Class 9
Packing Group III
Description UN3082, Other regulated substances, liquid, n.o.s. ((Copper (II) carbonate--copper(II) hydroxide (1:1))), 9, III

ICAO (air)

UN/ID no	UN3082
Proper shipping name	Other regulated substances, liquid, n.o.s.
Hazard Class	9
Packing Group	III
Special Provisions	A97, A158
Description	UN3082, Other regulated substances, liquid, n.o.s. ((Copper (II) carbonate--copper(II) hydroxide (1:1))), 9, III

IATA

UN/ID no	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
Packing Group	III
ERG Code	9L
Special Provisions	A97, A158, A197
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. ((Copper (II) carbonate--copper(II) hydroxide (1:1))), 9, III

IMDG

UN/ID no	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
Packing Group	III
EmS-No	F-A, S-F
Special Provisions	274, 335
Marine pollutant	This material meets the definition of a marine pollutant
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. ((Copper (II) carbonate--copper(II) hydroxide (1:1))), 9, III

RID

UN/ID no	UN3082
Proper shipping name	Other regulated substances, liquid, n.o.s.
Hazard Class	9
Packing Group	III
Classification code	M6
Description	UN3082, Other regulated substances, liquid, n.o.s. ((Copper (II) carbonate--copper(II) hydroxide (1:1))), , 9, III

UN/ID no	UN3082
Proper shipping name	Other regulated substances, liquid, n.o.s.
Hazard Class	9
Packing Group	III
Classification code	M6
Tunnel restriction code	(E)
Special Provisions	274, 335, 601, 375
Description	UN3082, Other regulated substances, liquid, n.o.s. ((Copper (II) carbonate--copper(II) hydroxide (1:1))), , 9, III, (E)
Labels	9

ADN

Proper shipping name	Other regulated substances, liquid, n.o.s.
Hazard Class	9
Packing Group	III
Classification code	M6
Special Provisions	274, 335, 601
Description	UN3082, Other regulated substances, liquid, n.o.s. ((Copper (II) carbonate--copper(II) hydroxide (1:1))), , 9, III
Hazard label(s)	9
Limited quantity (LQ)	5 L

15. REGULATORY INFORMATION

International Inventories

TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
(Copper (II) carbonate--copper(II) hydroxide (1:1)) - 12069-69-1	1.0
sodium nitrite - 7632-00-0	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
(Copper (II) carbonate--copper(II) hydroxide (1:1)) 12069-69-1	-	X	-	-
sodium nitrite 7632-00-0	100 lb	-	-	X
Copper sulfate 7758-98-7	10 lb	X	-	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
sodium nitrite 7632-00-0	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ
Copper sulfate 7758-98-7	10 lb	-	RQ 10 lb final RQ RQ 4.54 kg final RQ

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
formaldehyde - 50-00-0	Carcinogen
Naphthalene - 91-20-3	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
(Copper (II) carbonate--copper(II) hydroxide (1:1)) 12069-69-1	X	-	X
sodium nitrite 7632-00-0	X	X	X
Sodium sulfate 7757-82-6	-	X	X
formaldehyde 50-00-0	X	X	X
Naphthalene 91-20-3	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number 75506-12

Difference between SDS and EPA Pesticide label

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Danger

Corrosive

Causes irreversible eye damage

Harmful if swallowed

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazards 3	Flammability 1	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 3	Flammability 1	Physical hazards 0	Personal protection X

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Revision Note

No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet