

## 1. IDENTIFICATION

**Product identifier****Product Name****Wolman® E (CA-C)****Other means of identification****Product Code**

23425

**UN/ID no**

UN2491

**Registration Number(s)**

EPA: 75506-10

**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 - A Lonza Company  
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
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 2B
Reproductive toxicity	Category 2

**Label elements****Emergency Overview****Danger****Hazard statements**

Harmful if swallowed

Harmful if inhaled

Causes severe skin burns and eye damage

Causes eye irritation

Suspected of damaging fertility or the unborn child



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  
 Use only outdoors or in a well-ventilated area  
 Do not breathe dust/mist/vapors/spray

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician  
 Specific treatment (see First Aid on this label)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician if you feel unwell  
 Immediately call a POISON CENTER or doctor/physician  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth  
 Do NOT induce vomiting

**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**

Toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

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

**Chemical nature**

In formulation below: \*metallic copper equivalent 8.46 - 9.36.

Chemical Name	CAS No.	Weight-%	Trade Secret
Copper Ethanolamine Complex	14215-52-2	26.73	
2-aminoethanol	141-43-5	---	*
Surfactant A	Proprietary	---	*
Propiconazole	60207-90-1	0.19	
Tebuconazole	107534-96-3	0.19	

\*The exact percentage (concentration) of composition has been withheld as a trade secret

#### 4. FIRST AID MEASURES

##### Description of first aid measures

<b>General advice</b>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Do not rub affected area.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.
<b>Ingestion</b>	Call a physician or poison control center immediately. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice.

##### 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 (CO<sub>2</sub>). 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 (CO<sub>2</sub>). Toxic gas. Nitrogen oxides (NO<sub>x</sub>).

##### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

##### 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** Avoid contact with skin, eyes or clothing. Wear protective gloves/protective clothing and eye/face protection. In case of fire: Stop leak if safe to do so.

**For emergency responders** Use personal protection recommended in Section 8.

##### Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the

ground or into any body of water.

#### 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** Dam up. Prevent product from entering drains. After cleaning, flush away traces with water. Take up mechanically, placing in appropriate containers for disposal.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-aminoethanol 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m <sup>3</sup> (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m <sup>3</sup> (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m <sup>3</sup>	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 15 mg/m <sup>3</sup>

*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** 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. Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

**General Hygiene Considerations** Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical state</b>	liquid	<b>Odor</b>	Slight
<b>Appearance</b>	No information available	<b>Odor threshold</b>	No information available
<b>Color</b>	blue		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	9.5	
<b>Melting point / freezing point</b>	No information available	
<b>Boiling point / boiling range</b>	100 °C	
<b>Flash point</b>	> 212 °F	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	No information available	
<b>Lower flammability limit:</b>	No information available	
<b>Vapor pressure</b>	No information available	
<b>Vapor density</b>	No information available	
<b>Relative density</b>	1.25	
<b>Water solubility</b>	No information available	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Kinematic viscosity</b>	14 mm <sup>2</sup> /s	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	

**Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	24.84 per EPA Method 24
<b>Density</b>	10.3
<b>Bulk density</b>	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**

Strong oxidizing agents.

**Hazardous Decomposition Products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

**Product Information**

<b>Inhalation</b>	Harmful by inhalation. Avoid breathing vapors or mists.
<b>Eye contact</b>	Causes serious eye damage. Avoid contact with eyes.
<b>Skin contact</b>	Causes burns. Avoid contact with skin.
<b>Ingestion</b>	Harmful if swallowed. Do not taste or swallow.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-aminoethanol 141-43-5	1515 mg/kg (RT)	2504 mg/kg (RBT)	-
Surfactant A	500 - 2000 mg/Kg (RT)	-	-
Propiconazole 60207-90-1	= 1517 mg/kg (RT)	> 4000 mg/kg (RT)	>5.8 mg/L (RT) 4h
Tebuconazole 107534-96-3	>1700 mg/kg (RT)	> 2000 mg/kg (RT)	> 5.0 mg/L (RT) 4h

Note:  
RT = Rat  
RBT = Rabbit  
MSE = Mouse  
GP = Guinea Pig  
V = Vapour

**Information on toxicological effects**

**Symptoms** No information available.

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

**Skin corrosion/irritation** Causes severe burns.  
**Serious eye damage/eye irritation** Risk of serious damage to eyes.  
**Irritation** Irritating to eyes and skin.  
**Corrosivity** Risk of serious damage to eyes.  
**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

**Numerical measures of toxicity - Product Information**

ATEmix (oral)  
ATEmix (dermal)  
ATEmix (inhalation-gas)  
ATEmix (inhalation-dust/mist)  
ATEmix (inhalation-vapor)

**Numerical measures of toxicity**  
**Oral LD50** 1750 mg/kg (rat)  
**Dermal LD50** > 5050 mg/kg (rabbit)  
**Inhalation LC50** > 2.18 mg/l rat

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-aminoethanol 141-43-5	2.8 mg/L EC50 72 h (Pseudokirchneriella subcapitata)	349 mg/L LC50 96h (Cyprinus carpio)	65 mg/L EC50 48 h (Daphnia magna)
Surfactant A	-	7.5 mg/L LC50 96h (Onchorhynchus mykiss)	9.5 mg/L EC50 48h (Daphnia magna)
Propiconazole 60207-90-1	0.76 mg/L EC50 (Desmodesmus subspicatus)	4.3 mg/L LC50 96h (Oncorhynchus mykiss)	10.2 mg/L EC50 48h (Daphnia magna)
Tebuconazole	3.8 mg/L EC50 72h	4.4 mg/L LC50 48h (Oncorhynchus)	2.79 mg/L EC50 48h (Daphnia)

107534-96-3	(Pseudokirchneriella subcapitata)	mykiss)	magna)
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**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
2-aminoethanol 141-43-5	-1.91

**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**

Empty containers must be tripled rinsed prior to disposal. Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION

**DOT**

<b>UN/ID no</b>	UN2491
<b>Proper shipping name</b>	Ethanolamine solutions
<b>Hazard Class</b>	8
<b>Packing Group</b>	III
<b>Special Provisions</b>	IB3, T4, TP1
<b>Description</b>	UN2491, Ethanolamine solutions, 8, III
<b>Emergency Response Guide Number</b>	153

**TDG**

<b>UN/ID no</b>	UN2491
<b>Proper shipping name</b>	Ethanolamine solution
<b>Hazard Class</b>	8
<b>Packing Group</b>	III
<b>Description</b>	UN2491, Ethanolamine solution, 8, III

**MEX**

<b>UN/ID no</b>	UN2491
<b>Proper shipping name</b>	Ethanolamine solution
<b>Hazard Class</b>	8
<b>Packing Group</b>	III
<b>Description</b>	UN2491, Ethanolamine solution, 8, III

**ICAO (air)**

<b>UN/ID no</b>	UN2491
<b>Proper shipping name</b>	Ethanolamine solution
<b>Hazard Class</b>	8
<b>Packing Group</b>	III
<b>Special Provisions</b>	A3
<b>Description</b>	UN2491, Ethanolamine solution, 8, III

**IATA**

UN/ID no	UN2491
Proper shipping name	Ethanolamine solution
Hazard Class	8
Packing Group	III
ERG Code	8L
Special Provisions	A3, A803
Description	UN2491, Ethanolamine solution, 8, III

**IMDG**

UN/ID no	UN2491
Proper shipping name	Ethanolamine
Hazard Class	8
Packing Group	III
EmS-No	F-A, S-B
Special Provisions	223
Marine pollutant	This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO
Description	UN2491, Ethanolamine solution, 8, III

**RID**

UN/ID no	UN2491
Proper shipping name	Ethanolamine solution
Hazard Class	2.3
Classification code	2TC
Description	UN2491, Ethanolamine solution, 8, III
Labels	8 (+13)

**ADR**

UN/ID no	UN2491
Proper shipping name	Ethanolamine solution
Hazard Class	8
Packing Group	III
Classification code	C7
Tunnel restriction code	(E)
Description	UN2491, Ethanolamine solution, 8, III, (E)
Labels	8

**ADN**

Proper shipping name	Ethanolamine solution
Hazard Class	8
Packing Group	III
Classification code	C7
Description	UN2491, Ethanolamine solution, 8, III
Hazard label(s)	8
Limited quantity (LQ)	5 L

<b>15. REGULATORY INFORMATION</b>
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**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

Copper Ethanolamine Complex is expressed as Copper

Chemical Name	SARA 313 - Threshold Values %
Copper Ethanolamine Complex - 14215-52-2	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 Ethanolamine Complex 14215-52-2	-	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)
Copper Ethanolamine Complex 14215-52-2	-	X	-
Propiconazole 60207-90-1	-	X	-

### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-aminoethanol 141-43-5	X	X	X
Dipropylene glycol methyl ether 34590-94-8	X	X	X
Propiconazole 60207-90-1	X	-	-

#### U.S. EPA Label Information

EPA Pesticide Registration Number 75506-10

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 skin burns

Causes moderate eye irritation

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

<u>NFPA</u>	Health hazards 3	Flammability 1	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 3*	Flammability 1	Physical hazards 0	Personal protection X

Issue Date 21-May-2015

Revision Date 22-Mar-2018

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**