

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Dura-Guard Treated Wood

**Other means of identification**

**SDS number** 220-KPC-Hoover

**Recommended use** Preservative Treated Wood for various interior and exterior applications.

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Company Name** Hoover Treated Wood Products Inc.

**Address** 154 Wire Road, Thomson, GA 30824

**Telephone number** 706-595-5058

**Contact person** Regulatory Manager, HTWP

**Emergency Telephone Number** 706-595-7355 or CHEMTREC 1-800-424-9300

**E-mail** regulatory@frtw.com

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 1A
Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation

**OSHA defined hazards** Combustible dust

### Label elements



**Signal word** Danger

**Hazard statement** Causes skin irritation. Causes serious eye irritation. May cause cancer by inhalation. May cause respiratory irritation. May form combustible dust concentrations in air.

**Precautionary statement**

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Prevent dust accumulation to minimize explosion hazard. Ground/bond container and receiving equipment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.

**Response** If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. In case of fire: Use CO2, foam or water spray for extinction.

**Storage** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** None known.

### 3. Composition/information on ingredients

#### Mixtures

	CAS number	%
Wood/Wood dust	N/A	> 90
Monoethanolamine (MEA)	141-43-5	< 6
Copper complex expressed as Copper oxide	Proprietary	< 2

#### Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Depending on the additives applied to the treating solution, this wood may also contain <1 % of mold inhibitors, <1% of a non-hazardous wax emulsion, and <% of a colorant.

This product contains one of the below listed Quaternary Ammonium compounds:

Alkyl dimethyl benzyl ammonium chlorid CAS No: 68391-01-5 < 2%

Didecyl dimethyl ammonium chloride CAS No: 7173-51-5 < 2%

Didecyl dimethyl ammonium carbonate and Didecyl dimethyl ammonium bicarbonate CAS No:

Proprietary <2%

Certain West Coast species of wood may contain ammonia which replaces some of the MEA:

Ammonia (expressed as NH<sub>3</sub>) CAS No: 1336-21-6 <1%

### 4. First-aid measures

#### Inhalation

Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately. Some species may cause allergic respiratory reactions with asthma-like symptoms in sensitized individuals.

#### Skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes. Prolonged contact with treated wood and/or treated wood dust, especially when freshly treated at the plant, may cause irritation to the skin. Abrasive handling or rubbing of the treated wood may increase skin irritation. Some wood species, regardless of treatment, may cause dermatitis or allergic skin reactions in sensitized individuals. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

#### Eye contact

Do not rub eye. Immediately flush eye(s) with plenty of water. Remove any contact lenses and open eyelids wide apart. If eye irritation persists: Get medical advice/attention.

#### Ingestion

Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues.

#### Most important symptoms/effects, acute and delayed

Wood dust: May cause nasal dryness, irritation and mucostasis. Coughing, wheezing, sneezing, sinusitis and prolonged colds have also been reported. Depending on wood species may cause respiratory sensitization and/or irritation. Symptoms can include irritation, redness, scratching of the cornea, and tearing. May cause eczema-like skin disorders (dermatitis). Airborne treated or untreated wood dust may cause nose, throat, or lung irritation and other respiratory effects.

#### Indication of immediate medical attention and special treatment needed

Treat symptomatically.

#### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

#### Suitable extinguishing media

Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this may spread the fire.

#### Specific hazards arising from the chemical

Depending on moisture content, and more importantly, particle diameter and airborne concentration, wood dust in a contained area may explode in the presence of an ignition source. Wood dust may similarly deflagrate (combustion without detonation like an explosion) if ignited in an open or loosely contained area. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts. Reference NFPA Standards- 654 and 664 for guidance.

#### Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

**Fire fighting equipment/instructions**

Use water spray to cool fire exposed surfaces and to protect personnel.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Avoid generation and spreading of dust. Avoid spread of dust. Avoid inhalation of dust. Provide adequate ventilation. Wear appropriate personal protective equipment (See Section 8).

**Methods and materials for containment and cleaning up**

Sweep or vacuum up spillage and collect in suitable container for disposal. If not possible, gently moisten dust before it is collected with shovel, broom or the like. Containers must be labeled. Although no EPA Waste Numbers are applicable for this product's components, you must test your waste to determine if it meets applicable definitions of hazardous waste and for State requirements. Dispose of waste material according to local, State and Federal regulations. For waste disposal, see Section 13 of the SDS.

**Environmental precautions**

For good industrial practice avoid release to the environment.

**7. Handling and storage**

**Precautions for safe handling**

Avoid working with freshly treated wet wood. If not possible, wear long sleeve shirt, long pants and gloves when working with freshly treated wet wood. Clothing should be removed and replaced if it becomes wet due to contact with freshly treated wood. Avoid prolonged or repeated breathing of dust. Avoid contact with skin and eyes. Do not smoke. Do not burn preserved wood. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

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

Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials (See Section 10).

**8. Exposure controls/personal protection**

**Occupational exposure limits**

**U.S. - OSHA**

Components	Type	Value	Form
Wood/Wood dust (CAS N/A)	PEL	5 mg/m <sup>3</sup>	Respirable dust.
		15 mg/m <sup>3</sup>	Total fraction.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
Monoethanolamine (MEA) (CAS 141-43-5)	PEL	6 mg/m <sup>3</sup>
		3 ppm

**ACGIH**

Components	Type	Value	Form
Wood/Wood dust (CAS N/A)	TWA	1 mg/m <sup>3</sup>	Inhalable fraction.

**US. ACGIH Threshold Limit Values**

Components	Type	Value
Monoethanolamine (MEA) (CAS 141-43-5)	STEL	6 ppm
	TWA	3 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value	Form
Copper complex expressed as Copper oxide (CAS Proprietary)	TWA	1 mg/m <sup>3</sup>	Dust and mist.
		15 mg/m <sup>3</sup>	
		6 ppm	
Monoethanolamine (MEA) (CAS 141-43-5)	TWA	8 mg/m <sup>3</sup>	
		3 ppm	
		1 mg/m <sup>3</sup>	
Wood/Wood dust (CAS N/A)	TWA	1 mg/m <sup>3</sup>	Dust.

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Provide sufficient general/local exhaust ventilation to maintain inhalation exposures below current exposure limits and areas below explosive dust concentrations.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields or safety goggles when sawing or cutting.
<b>Skin protection</b>	
<b>Hand protection</b>	When handling wood, wear leather or fabric gloves.
<b>Other</b>	Wear normal work clothes and safety shoes.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH-approved respirator if there is a potential for exposure to dust exceeding exposure limits (See 29 CFR 1910.134, respiratory protection standard).
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	If wood dust contacts the skin, workers should wash the affected areas with soap and water. Clothing contaminated with wood dust should be removed, and provisions should be made for the safe removal of the chemical from the clothing. Persons laundering the clothes should be informed of the hazardous properties of wood dust. A worker who handles wood dust should thoroughly wash hands, forearms, and face with soap and water before eating, using tobacco products, using toilet facilities, applying cosmetics, or taking medication. Workers should not eat, drink, use tobacco products, apply cosmetics, or take medication in areas where wood dust is handled, or processed. Observe any medical surveillance requirements.

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Solid.
<b>Form</b>	Solid. Dust.
<b>Color</b>	Not available.

**Odor** Ammoniacal wood odor possible.

**Odor threshold** Not available.

**pH** Not applicable.

**Melting point/freezing point** Not applicable.

**Initial boiling point and boiling range** Not applicable.

**Flash point** Not available.

**Evaporation rate** Not applicable.

**Flammability (solid, gas)** Combustible dust.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** Not applicable.

**Vapor density** Not applicable.

**Relative density** Not available.

### Solubility(ies)

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not applicable.

## Other information

Percent volatile Not applicable.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous reactions do not occur.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Minimize dust generation and accumulation. Avoid contact with incompatible materials.
<b>Incompatible materials</b>	Strong acids. Alkalies. Oxidizers.
<b>Hazardous decomposition products</b>	Combustion products may yield irritating and toxic fumes and gases including organic chloride, aldehydes, amines, hydrogen chloride, ammonia, copper compounds, oxygen, boric oxide, oxides of carbon and nitrogen.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Wood dust, treated or untreated, is irritating to the nose, throat and lungs. Prolonged or repeated inhalation of wood dusts may cause respiratory irritation, recurrent bronchitis and prolonged colds. Some species may cause allergic respiratory reactions with asthma-like symptoms in sensitized individuals. Prolonged exposure to wood dusts by inhalation has been reported to be associated with nasal and paranasal cancer.
<b>Skin contact</b>	Causes skin irritation. Handling may cause splinters. Some wood species, regardless of treatment, may cause dermatitis or allergic skin reactions in sensitized individuals.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Not likely, due to the form of the product. However, ingestion of dusts generated during working operations may cause nausea and vomiting. Certain species of wood and their dusts may contain natural toxins, which can have adverse effects in humans.

### Symptoms related to the physical, chemical and toxicological characteristics

Wood dust: May cause nasal dryness, irritation and mucostasis. Coughing, wheezing, sneezing, sinusitis and prolonged colds have also been reported. Depending on wood species may cause respiratory sensitization and/or irritation. Symptoms can include irritation, redness, scratching of the cornea, and tearing. May cause eczema-like skin disorders (dermatitis). Airborne treated or untreated wood dust may cause nose, throat, or lung irritation and other respiratory effects.

### Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

Components	Species	Test Results
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Monoethanolamine (MEA) (CAS 141-43-5)

#### Acute

##### Dermal

LD50	Rabbit	1025 mg/kg
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##### Oral

LD50	Rat	1715 mg/kg
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**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

### Respiratory or skin sensitization

#### ACGIH Sensitization

Wood/Wood dust (CAS N/A)

Dermal sensitization  
Respiratory sensitization

**Respiratory sensitization** Exposure to wood dusts can result in hypersensitivity.

**Skin sensitization** Exposure to wood dust can result in the development of contact dermatitis. The primary irritant dermatitis resulting from skin contact with wood dusts consist of erythema, blistering, and sometimes erosion and secondary infections occur.

**Germ cell mutagenicity** No component of this product present at levels greater than or equal to 0.1% is identified as a mutagen by OSHA.

## Carcinogenicity

May cause cancer by inhalation.

Untreated wood dust or saw dust: The International Agency for Research on Cancer (IARC) classifies untreated wood dust as a Group I human carcinogen. The 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 of untreated wood dust. Epidemiological studies have been reported on carcinogenic risks of employment in the furniture-making industry, the carpentry industry, and the lumber and sawmill industry. IARC has reviewed these studies and reports that there is sufficient evidence that nasal carcinomas have been caused by employment in the furniture-making industry where the excess risk is associated with exposure to untreated wood dust or sawdust from hardwood species. IARC concluded that epidemiological data are not sufficient to make a definite assessment of the carcinogenic risk of employment as a carpenter or worker in a lumber mill or sawmill.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Wood/Wood dust (CAS N/A)

1 Carcinogenic to humans.

### NTP Report on Carcinogens

Wood/Wood dust (CAS N/A)

Known To Be Human Carcinogen.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

## Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

## Specific target organ toxicity - single exposure

May cause respiratory irritation.

## Specific target organ toxicity - repeated exposure

Not classified.

## Aspiration hazard

Not likely, due to the form of the product.

## Chronic effects

Chronic exposure to wood dusts can result in pneumonitis, and coughing, wheezing, fever and the other signs and symptoms associated with chronic bronchitis.

## 12. Ecological information

### Ecotoxicity

The product is not classified as environmentally hazardous.

Components		Species	Test Results
Monoethanolamine (MEA) (CAS 141-43-5)			
<b>Aquatic</b>			
Algae	EC50	Selenastrum capricornutum (new name Pseudokirchnerella subca	2.5 mg/l, 48 hours
Crustacea	EC50	Daphnia magna	65 mg/l, 48 hours
Fish	LC50	Cyprinus carpio	349 mg/l, 96 hours

### Persistence and degradability

No data is available on the degradability of this product.

### Bioaccumulative potential

#### Partition coefficient n-octanol / water (log Kow)

Monoethanolamine (MEA) (CAS 141-43-5)

-1.31

### Mobility in soil

The product is insoluble in water.

### Mobility in general

The product is not volatile but may be spread by dust-raising handling.

### Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

### Disposal instructions

Dispose in accordance with applicable federal, state, and local regulations. Do not discharge into drains, water courses or onto the ground.

### Local disposal regulations

Dispose of in accordance with local regulations.

### Hazardous waste code

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

### Waste from residues / unused products

Dispose in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.

### Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Copper complex expressed as Copper oxide (CAS Proprietary) LISTED

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** Yes

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Copper complex expressed as Copper oxide	Proprietary	< 2

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

### US state regulations

#### US. Massachusetts RTK - Substance List

Monoethanolamine (MEA) (CAS 141-43-5)

#### US. New Jersey Worker and Community Right-to-Know Act

Copper complex expressed as Copper oxide (CAS Proprietary)  
Monoethanolamine (MEA) (CAS 141-43-5)  
Wood/Wood dust (CAS N/A)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Monoethanolamine (MEA) (CAS 141-43-5)  
Wood/Wood dust (CAS N/A)

**US. Rhode Island RTK**

Copper complex expressed as Copper oxide (CAS Proprietary)

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Wood/Wood dust (CAS N/A)

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

<b>Issue date</b>	12-June-2015
<b>Revision date</b>	None
<b>Version #</b>	01
<b>Further information</b>	HMIS® is a registered trade and service mark of the NPCA. E - Safety Glasses, Gloves, Dust Respirator

Copper/Quat at 2:1 ratio  
0.15 pcf:  
Copper complex expressed as Copper Oxides 0.28% - 0.58%  
Quaternary Ammonium Compound 0.14% - 0.29%

0.20 pcf:  
Copper complex expressed as Copper Oxides 0.38% - 0.77%  
Quaternary Ammonium Compound 0.19% - 0.39%

0.40 pcf:  
Copper complex expressed as Copper Oxides 0.75% - 1.54%  
Quaternary Ammonium Compound 0.38% - 0.77%

0.60 pcf:  
Copper complex expressed as Copper Oxides 1.13% - 2.32%  
Quaternary Ammonium Compound 0.57% - 1.16%

Copper/Quat at 1:1 ratio  
0.15 pcf:  
Copper complex expressed as Copper Oxides 0.21% - 0.44%  
Quaternary Ammonium Compound 0.21% - 0.44%

0.20 pcf:  
Copper complex expressed as Copper Oxides 0.28% - 0.58%  
Quaternary Ammonium Compound 0.28% - 0.58%

0.40 pcf:  
Copper complex expressed as Copper Oxides 0.56% - 1.16%  
Quaternary Ammonium Compound 0.56% - 1.16%

0.60 pcf:  
Copper complex expressed as Copper Oxides 0.85% - 1.74%  
Quaternary Ammonium Compound 0.85% - 1.74%

<b>HMIS® ratings</b>	Health: 2* Flammability: 1 Physical hazard: 0 Personal protection: E
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**NFPA ratings**



**Disclaimer**

Hoover Treated Wood Products Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.