

SAFETY DATA SHEET (SDS) for *COP-GUARD*TM TREATED WOOD

Meets Requirements of OSHA's 29 CFR 1910.1200 (7-1-13 Edition)


SECTION I - Identification

- (a) Product identifier used on the label; *COP-GUARD*TM
- (b) Other means of identification; Ink stamp on Plywood, Lumber, Timbers or Other Engineered Wood Products.
- (c) Recommended use of the chemical and restrictions on use;

*COP-GUARD*TM is wood, pressure treated with Copper Naphthenate wood preservative. It provides fungicidal and insecticidal protection for wood products in ground contact, and above ground uses. It is low in toxicity and can be installed with a high degree of safety. It is listed in the standards of the American Wood Protection Association (AWPA) and is accepted for use by the United States Department of Agriculture and the United States military.

Restrictions on use –

- This wood must not be used where it will come in contact with food (Example cutting boards or counter tops), animal feed or potable water (Except for uses involving incidental contact such as docks or bridges).
 - Do not use this wood for garden applications where fruit and/or vegetables will be grown or any food garden uses.
 - This wood shall not be used in the construction of beehives.
 - This wood should not be used where it will be in frequent or prolonged contact with bare skin unless an effective sealer has been applied. (Example: chairs and other outdoor furniture)
 - This wood should not be used for human occupied interior applications. For interiors of farm buildings where domestic animals or livestock will not crib (bite) or lick the wood, this treated wood may be used for building components where two coats of an appropriate sealer are applied.
- (d) Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party;

MANUFACTURER	
Hoover Treated Wood Products, Inc. 154 Wire Road Thomson, Georgia 30824 706-595-5058	 www.frtw.com

- (e) Emergency phone number. 706-595-7355

SECTION II – Hazard(s) Identification

- (a) Classification of the chemical in accordance with paragraph (d) of § 1910.1200;

All classifications have been performed considering sawing, grinding, drilling, sanding or machining of the product has taken place and wood dust, sawdust, and small wood chips are present. Only “**Softwoods**” are used in the production of the product. So data derived from “**Hardwoods**” studies has not been considered.

Acute Toxicity – N/A

Skin Corrosion/Irritation – **Irritant, category 2**

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Serious Eye Damage/Eye Irritation – **Irritant, category 2B**

Respiratory or Skin Sensitization:

Respiratory Sensitizer, category 1, sub-category 1B

Skin Sensitizer, category 1, sub-category 1B

Germ Cell Mutagenicity – N/A

Carcinogenicity – **Carcinogen, category 2**

Reproductive Toxicity – N/A

Specific Target Organ Toxicity Single Exposure – N/A

Specific Target Organ Toxicity Repeated or Prolonged Exposure – N/A

Aspiration Hazard – N/A

Explosives – N/A

Flammable Gases – N/A

Flammable Aerosols – N/A

Oxidizing Gases – N/A

Gases Under Pressure – N/A

Flammable Liquids – N/A

Flammable Solids – **Readily Combustible Solids, category 2**

Self-Reactive Chemicals – N/A

Pyrophoric Liquids – N/A

Pyrophoric Solids – N/A

Self-Heating Chemicals – N/A

Chemicals Which, In Contact With Water, Emit Flammable Gases – N/A

Oxidizing Liquids – N/A

Oxidizing Solids – N/A

Organic Peroxides – N/A

Corrosive to Metals – N/A

N/A = Not Applicable

- (b) Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of § 1910.1200. (Hazard symbols may be provided as graphical reproductions in black and white or the name of the symbol, e.g., flame, skull and crossbones);

Skin Corrosion/Irritation – Skin Irritation hazard category 2



Warning

Causes Skin Irritation

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Wash all body parts which have come into contact with any sawdust generated from sawing, grinding, drilling, sanding, or machining thoroughly after handling.</p> <p>Wear protective gloves. Any type that creates a barrier is acceptable – Selection should be oriented to decrease contact with splinters and slivers of wood.</p>	<p>If on skin: Wash with plenty of water and soap.</p> <p>If skin irritation occurs: Get medical advice.</p> <p>Take off contaminated clothing and wash it before reuse.</p>		

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Serious Eye Damage/Eye Irritation – Eye Irritation hazard category 2B


Warning Causes Eye Irritation

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Wash all body parts which have come into contact with any sawdust generated from sawing, grinding, drilling, sanding, or machining thoroughly after handling.</p>	<p>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>If eye irritation persists: Get medical advice.</p>		

Sensitization – Respiratory hazard category 1B

Danger May Cause Allergy Or Asthma Symptoms Or Breathing Difficulties If Inhaled



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Avoid breathing dust.</p> <p>In case of inadequate ventilation wear respiratory protection.</p> <p>Adequate ventilation is considered that which keeps exposure limits at or below 15mg/m³</p>	<p>If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.</p> <p>If experiencing respiratory symptoms: Call a poison center.</p> <div style="text-align: center;">  <p>For a poison emergency in the U.S. call 1-800-222-1222</p> </div>		<p>Dispose of contents in accordance with all applicable local, regional, national, or international rules and regulations.</p>

Sensitization - Skin hazard category 1B

Warning May Cause An Allergic Skin Reaction



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Avoid breathing dust.</p> <p>Contaminated work clothing must not be allowed out of the workplace</p> <p>Wear protective gloves. Any type that creates a barrier is acceptable – Selection should be oriented to decrease contact with splinters and slivers of wood.</p>	<p>If on skin: Wash with plenty of water and soap.</p> <p>If skin irritation occurs: Get medical advice.</p> <p>Wash contaminated clothing before reuse.</p>		<p>Dispose of contents in accordance with all applicable local, regional, national, or international rules and regulations.</p>

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Carcinogenicity – Carcinogen hazard category 2



Warning Suspected Of Causing Cancer Of The Upper Respiratory System

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read and understood.</p> <p>Wear protective gloves and eye protection. Acceptable gloves are any type that creates a barrier – Glove selection should be oriented to decrease contact with splinters and slivers of wood.</p>	<p>If exposed or concerned: Get medical advice.</p>	<p>Store locked up.</p>	<p>Dispose of contents in accordance with all applicable local, regional, national, or international rules and regulations.</p>

Flammable Solids – Readily Combustible Solids, category 2



Warning Flammable Solid

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Keep away from heat, sparks, open flames and hot surfaces. - No smoking.</p> <p>Ground or Bond container and receiving equipment.</p> <p>Use explosion-proof electrical, ventilating, lighting, and processing equipment.</p> <p>Wear protective gloves and eye protection. Acceptable gloves are any type that creates a barrier – Glove selection should be oriented to decrease contact with splinters and slivers of wood.</p>	<p>In case of fire: Use water or wood appropriate fire extinguishers to extinguish.</p>		

(c) Describe any hazards not otherwise classified that have been identified during the classification process;

If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

The Occupational Safety and Health Administration (OSHA) in the United States defines combustible dust as "a solid material composed of distinct particles or pieces, regardless of size, shape, or chemical composition, which presents a fire or deflagration hazard when suspended in air or some other oxidizing medium over a range of concentrations".

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Dust particles with an effective diameter of less than 420 microns (those passing through a U.S. No. 40 standard sieves) should be deemed to meet the criterion of the definition.

- (d) Where an ingredient with unknown acute toxicity is used in a mixture at a concentration $\geq 1\%$ and the mixture is not classified based on testing of the mixture as a whole, a statement that X% of the mixture consists of ingredient(s) of unknown acute toxicity is required.

N/A

SECTION III - Composition/Information on Ingredients

Except as provided for in paragraph (i) of §1910.1200 on trade secrets:

For Substances

- (a) Chemical name;
- (b) Common name and synonyms;
- (c) CAS number and other unique identifiers;
- (d) Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance.

For Mixtures

In addition to the information required for substances:

- (a) The chemical name and concentration (exact percentage) or concentration ranges of all ingredients which are classified as health hazards in accordance with paragraph (d) of §1910.1200 and
 - (1) Are present above their cut-off/concentration limits; or
 - (2) Present a health risk below the cut-off/concentration limits.
- (b) The concentration (exact percentage) shall be specified unless a trade secret claim is made in accordance with paragraph (i) of §1910.1200, when there is batch-to-batch variability in the production of a mixture, or for a group of substantially similar mixtures (See A.0.5.1.2) with similar chemical composition. In these cases, concentration ranges may be used.

For All Chemicals Where a Trade Secret is Claimed

Where a trade secret is claimed in accordance with paragraph (i) of §1910.1200, a statement that the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret is required.

See Below For Requirements –

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Chemical, Common or Synonyms Name	Approximate %	CAS #
Wood (mainly softwoods such as pine)	85% to 98%	None
Copper Naphthenate Naphthenic Acid Copper Salt	1% to 5% (0.1% to 0.6% As Copper)	1338-02-9
Distillates (petroleum), hydrotreated light Mineral Spirits	1% to 10%	64742-47-8
Solvent naphtha (petroleum), medium aliphatic Mineral Spirits	0% to 7%	64742-88-7
xylene* *minor component of mineral spirits	0% to 0.3%	1330-20-7
toluene* *minor component of mineral spirits	0% to 0.1%	108-88-3
Engineered Wood Products may contain bonding agents such as phenol, phenol resorcinol, melamine formaldehyde-based, or polyvinyl acetate resin and other ingredients below reportable levels	Balance	

SECTION IV – First-aid Measures

- (a) Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion;



First Aid Procedures

First Aid for Inhalation: – If inhalation symptoms appear remove from area of exposure and monitor. If persistent irritation, severe coughing, allergic-type responses or breathing difficulty occurs, get medical attention.

First Aid for Skin Contact: – If skin contact symptoms appear remove from area of exposure and monitor. Remove contaminated clothing. Wash affected area with soap and water. If irritation persists after washing, get medical attention.

First Aid for Eye Contact: – Wood dust may cause mechanical irritation. Treat dust in eye as foreign object. Remove contact lenses if worn. Flush eyes with large amounts of water to remove dust particles. Do not rub the eyes. Seek medical attention if irritation persists.

First Aid for Ingestion: – Not applicable under normal use, and considered unlikely. If occurred - Do not induce vomiting unless directed by a medical care giver, drink water. Never give anything by mouth to an unconscious person. Seek medical advice.

Notes to Physician: – All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

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(b) Most important symptoms/effects, acute and delayed.

Potential Health Effects

Inhalation

Wood dust may cause nasal dryness, irritation, coughing and sinusitis. Repeated exposures (even below 15 mg/m³) to certain wood dusts such as Western Red Cedar, can produce allergic responses in some sensitive individuals. Wood dust can be irritating to eyes, nose and respiratory tract following prolonged exposure.

Skin Contact

Various species of wood dust may evoke allergic contact dermatitis in sensitized individuals. If an allergy preexists or develops, it may be necessary to remove the sensitized worker from further exposure to wood dust or wood-based products. The chemical components may cause slight to mild irritation.

Eye Contact

Dust or splinters may cause irritation or injury to the eyes. The chemical components can cause burning sensation, tearing, and redness.

Ingestion

Not applicable under normal use, and considered unlikely. If occurred may result in irritation of the digestive tract.

(c) Indication of immediate medical attention and special treatment needed, if necessary.

N/A

SECTION V – Fire-fighting Measures

(a) Suitable (and unsuitable) extinguishing media.

FIRE EXTINGUISHING MEDIA: Water, foam or Fire Extinguishers designated for wood. Partially burned dust is especially hazardous if dispersed into the air. Remove burned or wet dust to open area after fire is extinguished.

(b) Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products).

EXPLOSIVE LIMITS: Sawing, sanding or machining wood products can produce wood dust as a by-product. Wood dust is a strong to severe explosion hazard if a dust “cloud” contacts an ignition source. 212°F (100°C) has been suggested as the upper temperature limit for continuous exposure for wood without risk of ignition (wood dust may require a still lower temperature). An airborne concentration of 40 grams of dust per cubic meter of air is often used as the lowest explosion limit (LEL) for wood dust.

HAZARDOUS COMBUSTION PRODUCTS: Thermal-oxidative degradation, or burning, of wood can produce irritating and potentially toxic fumes and gases including carbon monoxide, aldehydes and organic acids. Chemical treatment has little or no effect on the above possibilities from untreated wood.

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AUTOIGNITION TEMPERATURE: Unknown (Chemical Treatment Retards).

(c) Special protective equipment and precautions for fire-fighters.

None

SECTION VI - Accidental Release Measures

(a) Personal precautions, protective equipment, and emergency procedures.

(b) Methods and materials for containment and cleaning up.

Not applicable for product in purchased form. Sweep or vacuum up sawdust for recovery or disposal. Wood dust clean-up and disposal activities should be accomplished in a manner to minimize creation of airborne dust.

SECTION VII - Handling and Storage

(a) Precautions for safe handling.

(b) Conditions for safe storage, including any incompatibilities.

HANDLING:

Protective Gloves – Work gloves are recommended to avoid splinters.

Eye Protection – Safety goggles or glasses are recommended when machining to protect against sawdust and flying wood particles.

Protective Clothing or Equipment – Recommended as typical with any wood working.

Work/Hygienic Practices - Practice good hygiene, wash hands after use and before eating, drinking or using tobacco products.

STORAGE:

No special requirements. Water spray may be used to wet down wood dust generated by sawing, grinding, drilling, sanding or machining to reduce the likelihood of ignition or dispersion of dust into the air.

SECTION VIII - Exposure Controls/Personal Protection

(a) OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

(b) Appropriate engineering controls.

(c) Individual protection measures, such as personal protective equipment.

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EXPOSURE GUIDELINES:

Chemical	OSHA PEL	ACGIH TLV
Wood (mainly softwoods such as pine)	15 mg/m ³ TWA (Listed under Particulates Not Otherwise Regulated - Total dust) 5 mg/m ³ TWA Respirable Fraction	1 mg/m ³ TWA* *Inhalable Fraction
Copper Naphthenate Naphthenic Acid Copper Salt	1 mg/m ³ * *As copper dust/mist only (Cu)	1 mg/m ³ * *as copper dust/mist only (Cu)
Distillates (petroleum), hydrotreated light Mineral Spirits	500 ppm* TWA *Based on the PEL-TWA for Stoddard solvent	100 ppm* TWA *Based on the ACGIH TLV-TWA for Stoddard solvent Absorbed Through Skin 200 mg/m ³ ** TWA **as total hydrocarbon vapor
Solvent naphtha (petroleum), medium aliphatic Mineral Spirits	500 ppm* TWA *Based on the PEL-TWA for Stoddard solvent	100 ppm* TWA *Based on the ACGIH TLV-TWA for Stoddard solvent Absorbed Through Skin 200 mg/m ³ ** TWA **as total hydrocarbon vapor
xylene* *minor component of mineral spirits	100 ppm TWA	100 ppm TWA
toluene* *minor component of mineral spirits	200 ppm TWA	20 ppm TWA
Engineered Wood Products may contain bonding agents such as phenol, phenol resorcinol, melamine formaldehyde-based, or polyvinyl acetate resin and other ingredients below reportable levels	Unknown	Unknown

ENGINEERING CONTROLS: Due to the explosive potential of wood dust when suspended in air, precautions should be taken during sawing, grinding, drilling, sanding or machining of wood products to prevent sparks or other ignition sources in ventilation equipment. Use of totally enclosed motors is recommended. Provide local exhaust as necessary to meet OSHA requirements for airborne exposure limits.

INDIVIDUAL PROTECTION MEASURES:

RESPIRATORY PROTECTION: When sawing, grinding, drilling, sanding or machining, a dust mask is recommended. Typical use of this material does not result in workplace exposures that exceed the exposure limits listed in the Exposure Limit Information Section. For those special workplace conditions where the listed exposure limits are exceeded, a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed.

VENTILATION REQUIREMENTS: In enclosed environments, ventilation may be required in order to maintain exposure limits.

PROTECTIVE GLOVES: Not required. However, cloth, canvas, or leather gloves are recommended to minimize potential splinters, slivers or mechanical irritation when handling product or wood dust generated from the product.

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EYE PROTECTION: Goggles or safety glasses are recommended when excessive exposures to wood dust may occur (e.g. during clean up).

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: As necessary to limit exposure when handling the product or wood dust generated from the product.

WORK/HYGIENIC PRACTICES: Follow good hygienic and housekeeping practices. Clean up areas where wood dust settles to avoid excessive accumulation of this combustible material. Minimize compressed air blow down or other practices that generate high airborne-dust concentrations. Do not handle material near food, feed or drinking water. Use good personal hygiene. Wash hands before eating or smoking.

SECTION IX - Physical and Chemical Properties

(a) Appearance (physical state, color, etc.);

(b) Odor;

If *Plywood* – Rigid panel usually ½” to ¾” thick and 4’ width and 8’ length. If *Lumber* – Plank usually 2” nominal thickness but can vary from ½” to 4” with widths varying from 2” to 12” wide and lengths normally from 6 to 18 feet. If *Timbers* – Thickness is greater than 4” and widths and lengths vary. If an *Engineered Wood Product* – thickness, width and length will vary. Color and odor are dependent upon wood specie. Chemical treatment darkens the woods natural color and adds a light green tint with a light hydrocarbon smell.

(c) Odor threshold; N/A

(d) pH; N/A

(e) Melting point/freezing point; N/A

(f) Initial boiling point and boiling range; N/A

(g) Flash point; N/A

(h) Evaporation rate; N/A

(i) Flammability (solid, gas); Wood Dust Combustible

(j) Upper/lower flammability or explosive limits; Wood Dust $\geq 40 \text{ g/m}^3$

(k) Vapor pressure; N/A

(l) Vapor density; N/A

(m) Relative density; Variable - Dependent on wood species and moisture content (typically 22 – 37 lbs/ft³)

(n) Solubility(ies); None

(o) Partition coefficient: n-octanol/water; N/A

(p) Auto-ignition temperature; Auto-ignition Temperature is $\geq 572 \text{ F}$

(q) Decomposition temperature; $\geq 572 \text{ F}$

(r) Viscosity. N/A

SECTION X - Stability and Reactivity

- (a) Reactivity; N/A
- (b) Chemical stability; Stable under normal conditions. Wood dust generated from sawing, grinding, drilling, sanding or machining the product is combustible. Keep in cool, dry place away from ignition sources.
- (c) Possibility of hazardous reactions; None Known
- (d) Conditions to avoid (e.g., static discharge, shock, or vibration); Strong acids, open flame, and large accumulations of air-borne wood dust.
- (e) Incompatible materials; Oxidizing agents, Drying Oils, Strong Bases, and Reducing Agents.
- (f) Hazardous decomposition products. Thermal-oxidative degradation, or burning, of wood can produce irritating and potentially toxic fumes and gases including carbon monoxide, carbon dioxide, aliphatic aldehydes, resin acids, terpenes, and polycyclic aromatic hydrocarbons. Reaction with strong reducing agents, such as metal hydrides or alkali metals, will generate hydrogen gas, which could create an explosive hazard.

SECTION XI - Toxicological Information

Description of the various toxicological (health) effects and the available data used to identify those effects, including:

- (a) Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact);
- (b) Symptoms related to the physical, chemical and toxicological characteristics;
- (c) Delayed and immediate effects and also chronic effects from short- and long-term exposure;
- (d) Numerical measures of toxicity (such as acute toxicity estimates).
- (e) Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.

PRODUCT AS PRODUCED:

Is an article and no toxicological information is available.

OSHA: Wood products are not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, wood dust generated by sawing, sanding or machining this product may be hazardous.

COMPONENTS:

Copper Naphthenate (cas# 1338-02-9) -

- oral LD₅₀ (rat): 2,000 mg/kg
- dermal LD₅₀ (rabbit): Greater than 2,020 mg/kg

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Mineral Spirits -

Information On Toxicological Effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha (petroleum), medium aliphatic	LC ₅₀ Inhalation Dusts and mists	Rat	>5.28 mg/l	4 hours
	LD ₅₀ Dermal	Rabbit	>2000 mg/kg	-
	LD ₅₀ Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), hydrotreated light	LD ₅₀ Dermal	Rabbit	>2000 mg/kg	-
	LD ₅₀ Oral	Rat	>5000 mg/kg	-
xylene	LC ₅₀ Inhalation Gas.	Rat	6670 ppm	4 hours
	LC ₅₀ Inhalation Vapor	Rat	5000 ppm	4 hours
	LD ₅₀ Oral	Rat	4300 mg/kg	-
toluene	LC ₅₀ Inhalation Vapor	Rat	49 g/m ³	4 hours
	LD ₅₀ Oral	Rat	636 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
toluene	Skin - Moderate irritant	Rabbit	-	100 Percent	-
	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 milligrams	
	Eyes - Mild irritant	Rabbit	-	870 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Pig	-	24 hours 250 microliters	-
	Skin - Mild irritant	Rabbit	-	435 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Conclusion/Summary: The classification as a carcinogen need not apply as it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

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Classification

Product/ingredient name	OSHA	IARC	NTP
xylene	-	3	-
toluene	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), medium aliphatic	Category 3	Not applicable.	Narcotic effects
xylene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
toluene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
toluene	Category 2	Not determined	kidneys and liver

Aspiration hazard

Name	Result
Distillates (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, and Inhalation.

Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

Skin contact: Causes skin irritation.

Ingestion: Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:
 pain or irritation
 watering
 redness

Inhalation: Adverse symptoms may include the following:
 nausea or vomiting
 headache
 drowsiness/fatigue
 dizziness/vertigo
 unconsciousness

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Skin contact: Adverse symptoms may include the following:
irritation
redness

Ingestion: No specific data

Numerical measures of toxicity

Acute toxicity estimates:

Route	ATE value
Oral	307142.9 mg/kg
Dermal	78571.4 mg/kg
Inhalation (gases)	476428.6 ppm

WOOD DUST (softwood or hardwood) -

OSHA Hazard Rating = 3.3; moderately toxic with probable oral lethal dose to humans being 0.5-5 g/kg (about 1 pound for a 150 pound person) Source: *OSHA Regulated Hazardous Substances*, Government Institutes, Inc., February 1990.

Wood dust generated from sawing, grinding, drilling, sanding or machining may cause nasal dryness, irritation, coughing and sinusitis. NTP and IARC classify wood dust as a human carcinogen (IARC Group 1). This classification is based primarily on increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.

SECTION XII - Ecological Information

- (a) Ecotoxicity (aquatic and terrestrial, where available); Not available
- (b) Persistence and degradability;
- (c) Bioaccumulative potential;

Environmental fate of wood dust would be expected to be biodegradable.

- (d) Mobility in soil; N/A
- (e) Other adverse effects (such as hazardous to the ozone layer). None Known

SECTION XIII - Disposal Considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of material according to Local, State, Federal, and Provincial Environmental Regulations.

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The producer has made a determination that this product is not considered hazardous waste under Federal hazardous waste regulations 40 CFR Part 261. Incinerate or landfill in accordance with Local, State, and Federal regulations.

SECTION XIV – Transport Information

- (a) UN number;
- (b) UN proper shipping name;
- (c) Transport hazard class(es);
- (d) Packing group, if applicable;
- (e) Environmental hazards (e.g., Marine pollutant (Yes/No));
- (f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code);
- (g) Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

This product is not regulated as a dangerous good or hazardous material by the U.S. Department of Transportation (DOT).

SECTION XV - Regulatory Information

Safety, health and environmental regulations specific for the product in question.

SARA/Superfund Amendments and Reauthorization Act of 1986 (Title III) – Sections 302, 311, 312 and 313:

Section 302 - Extremely Hazardous Substances (40 CFR 355): This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

Sections 311 and 312 - Material Safety Data Sheet Requirements (40 CFR 370): OSHA: Wood products (article exemption) per se are not hazardous under the criteria of the federal OSHA Hazard Communication Standard 29CFR 1910.1200. However, wood dust generated by sawing, sanding or machining wood products may be hazardous and hence included under section 1910.1200.

This product as sold is not hazardous per section II evaluations.

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

Section 313 - List of Toxic Chemicals (40 CFR 372): This product contains no chemical ingredients with known CAS number that exceed the de minimis reporting levels established by SARA Title III, section 313 and 40 CFR section 372.

40CFR Part 302-DESIGNATION, REPORTABLE QUANTITIES, AND NOTIFICATION

This product does contain components listed in Table 302.4-LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES. These are xylene and toluene.

Toxic Substances Control Act (TSCA):

The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

SAFETY DATA SHEET (SDS) for COP-GUARD™ TREATED WOOD

STATE RIGHT-TO-KNOW:

California Prop 65:

Warning: Drilling, sawing, sanding or machining wood products generates wood dust, a substance known to the State of California to cause cancer.

Pennsylvania – When cut or otherwise machined, wood products may emit wood dust. Wood dust appears on Pennsylvania’s Appendix A, Hazardous Substance List.

New Jersey – When cut or otherwise machined, wood products may emit wood dust. Wood dust appears on New Jersey’s Environmental Hazardous Substance List.

FDA: Not intended for use as a food additive or indirect food contact item.

SECTION XVI - Other Information

The date of preparation of the SDS or the last change to it.

Current Issue: 06/22/2015

Previous Issue: None

User’s Responsibility: The information contained in this Safety Data Sheet is based on the experience of health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user’s responsibility to determine if the product is suitable for its proposed application(s) and to follow necessary safety precautions. The user has the responsibility to make sure that this SDS is the most up-to-date issue.

NOTICE: Although the information and recommendations set forth herein (hereinafter “Information”) are presented in good faith and believed to be correct as of the date hereof, Hoover Treated Wood Products, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for the purposes prior to use. In no event will Hoover Treated Wood Products, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information. **NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.**