

# SAFETY DATA SHEET

## 1. Identification

Product identifier	NatureWood Treated Wood		
Other means of identification			
SDS number	220-KPC		
Recommended use	Preservative Treated Wood for various interior and exterior applications.		
<b>Recommended restrictions</b>	None known.		
Manufacturer/Importer/Supplier/Distributor information			
Company Name	Koppers Performance Chemicals Inc.		
Address	1016 Everee Inn Rd., Griffin, GA 30224		
Telephone number	770-233-4200		
Contact person	Regulatory Manager, KPC Inc.		
Emergency Telephone Number	CHEMTREC 1-800-424-9300		
E-mail	KPCmgrsds@koppers.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 react 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.	
lazard(s) not otherwise lassified (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 percent by volume. Depending on the additives applied to the treatin mold inhibitors, <1% of a non-hazardous wax en This product contains one of the below listed Qu Alkyl dimethyl benzyl ammonium chlorid CAS No Didecyl dimethyl ammonium chloride CAS No: 7 Didecyl dimethyl ammonium carbonate and Dide Proprietary <2% Certain West Coast species of wood may contai Ammonia (expressed as NH3) CAS No: 1336-21	ng solution, this wood may nulsion, and <% of a colora aternary Ammonium comp 5: 68391-01-5 < 2% 173-51-5 < 2% acyl dimethyl ammonium bi n ammonia which replaces	also contain <1 % of int. ounds: carbonate CAS No:
4. First-aid measures			
Inhalation	Move to fresh air. If breathing is difficult, give oxy species may cause allergic respiratory reactions individuals.		
Skin contact	Remove contaminated clothing. Wash skin thord Prolonged contact with treated wood and/or trea the plant, may cause irritation to the skin. Abrasi increase skin irritation. Some wood species, rega allergic skin reactions in sensitized individuals. In Seek medical attention and bring along these ins	ted wood dust, especially ve handling or rubbing of the ardless of treatment, may on case of rashes, wounds of the second	when freshly treated at ne treated wood may cause dermatitis or
Eye contact	Do not rub eye. Immediately flush eye(s) with ple open eyelids wide apart. If eye irritation persists:		
Ingestion	Rinse mouth thoroughly if dust is ingested. Get r	medical attention if any disc	comfort 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 protect themselves.	material(s) involved, and ta	ake precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Carbon dioxide, regular foam, dry chemical, wate	er spray, or water fog.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this r		
Specific hazards arising from the chemical	Depending on moisture content, and more import concentration, wood dust in a contained area may Wood dust may similarly deflagrate (combustion an open or loosely contained area. An airborne of cubic meter of air is often used as the LEL for wo 664 for guidance.	ay explode in the presence without detonation like an concentration of 40 grams	of an ignition source. explosion) if ignited in (40,000 mg) of dust per
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full prote Selection of respiratory protection for firefighting the workplace.		

## 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

housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. 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

Components	Туре	Value	Form
Wood/Wood dust (CAS N/A)	PEL	5 mg/m3	Respirable dust.
		15 mg/m3	Total fraction.
US. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910.	1000)	
Components	Туре	Value	
Monoethanolamine (MEA) (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
ACGIH			
Components	Туре	Value	Form
Wood/Wood dust (CAS N/A)	TWA	1 mg/m3	Inhalable fraction.
US. ACGIH Threshold Limit Value	S		
Components	Туре	Value	
Monoethanolamine (MEA) (CAS 141-43-5)	STEL	6 ppm	
· · · ·	TWA	3 ppm	
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	Туре	Value	Form
Copper complex expressed as Copper oxide (CAS Proprietary)	TWA	1 mg/m3	Dust and mist.
Monoethanolamine (MEA) (CAS 141-43-5)	STEL	15 mg/m3	
· /		6 ppm	
	TWA	8 mg/m3	
		3 ppm	
Wood/Wood dust (CAS N/A)	TWA	1 mg/m3	Dust.

Biological limit values	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	Provide sufficient general/local exhaust ventilation to maintain inhalation exposures below current exposure limits and areas below explosive dust concentrations.	
Individual protection measures, s	such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields or safety goggles when sawing or cutting.	
Skin protection		
Hand protection	When handling wood, wear leather or fabric gloves.	
Other	Wear normal work clothes and safety shoes.	
Respiratory protection	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 CRF 1910.134, respiratory protection standard).	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	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

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Appearance		
Physical state	Solid.	
Form	Solid. Dust.	
Color	Not available.	
Odor	Ammoniacal wood odor possible.	
Odor threshold	Not available.	
рН	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 informationPercent volatileNot applicable.

10. Stability and reactivit	у	
Reactivity	The product is non-reactive under normal conditions of use, storage and transport.	
Chemical stability	Stable at normal conditions.	
Possibility of hazardous reactions	Hazardous reactions do not occur.	
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Minimize dust generation and accumulation. Avoid contact with incompatible materials.	
Incompatible materials	Strong acids. Alkalies. Oxidizers.	
Hazardous decomposition products	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

Inhalation	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.
Skin contact	Causes skin irritation. Handling may cause splinters. Some wood species, regardless of treatment, may cause dermatitis or allergic skin reactions in sensitized individuals.
Eye contact	Causes serious eye irritation.
Ingestion	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 acu	tely toxic.		
Components	Species	Test Results		
Monoethanolamine (MEA) (CAS	141-43-5)			
Acute				
Dermal				
LD50	Rabbit	1025 mg/kg		
Oral				
LD50	Rat	1715 mg/kg		
Skin corrosion/irritation	Causes skin irritation.	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irri	Causes serious eye irritation.		
Respiratory or skin sensitizati	on			
ACGIH Sensitization				
Wood/Wood dust (CAS N/A)		Dermal sensitization Respiratory sensitization		
Respiratory sensitization	Exposure to wood dust	Exposure to wood dusts can result in hypersensitivity.		
Skin sensitization	dermatitis resulting from	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.			

Untreated wood dust or saw du classifies untreated wood dust primarily on IARC's evaluation nasal cavities and paranasal si dust. Epidemiological studies I furniture-making industry, the or reviewed these studies and rep been caused by employment in with exposure to untreated woo epidemiological data are not su	ust: The International Age as a Group I human carc of increased risk in the or nuses associated with oc have been reported on ca carpentry industry, and the ports that there is sufficier in the furniture-making ind bid dust or sawdust from h ufficient to make a definite	inogen. The classification is based ccurrence of adenocarcinomas of the ccupational exposures of untreated wood arcinogenic risks of employment in the e lumber and sawmill industry. IARC has nt evidence that nasal carcinomas have ustry where the excess risk is associated nardwood species. IARC concluded that e assessment of the carcinogenic risk of
Evaluation of Carcinogenicity		
/A)	1 Carcinogenic to huma	ns.
/A) d Substances (29 CFR 1910.10		arcinogen.
This product is not expected to	cause reproductive or de	velopmental effects.
May cause respiratory irritation	I.	
Not classified.		
Not likely, due to the form of th	e product.	
The product is not classified as	environmentally hazardo	ous.
Species		Test Results
	Untreated wood dust or saw du classifies untreated wood dust primarily on IARC's evaluation nasal cavities and paranasal si dust. Epidemiological studies furniture-making industry, the or reviewed these studies and rep been caused by employment in with exposure to untreated wood epidemiological data are not su employment as a carpenter or <b>Evaluation of Carcinogenicity</b> (A) (A) <b>A Substances (29 CFR 1910.10</b> This product is not expected to May cause respiratory irritation Not classified. Not likely, due to the form of th Chronic exposure to wood dus other signs and symptoms ass The product is not classified as	<ul> <li>(A) 1 Carcinogenic to human</li> <li>(A) Known To Be Human Card</li> <li><b>Substances (29 CFR 1910.1001-1050)</b></li> <li>This product is not expected to cause reproductive or de May cause respiratory irritation.</li> <li>Not classified.</li> <li>Not likely, due to the form of the product.</li> <li>Chronic exposure to wood dusts can result in pneumoniation other signs and symptoms associated with chronic brone</li> <li>The product is not classified as environmentally hazardor</li> <li>Species</li> </ul>

Monoethanolamine (MEA) (	CAS 141-43-5)		
Aquatic			
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
ersistence and degradability	No data is a	vailable on the degradability of this product.	
ioaccumulative potential			
Partition coefficient n-oct Monoethanolamine (MEA) (	•	<b>g Kow)</b> -1.31	
obility in soil	The product	t is insoluble in water.	
obility in general	The product	t is not volatile but may be spread by dust-ra	ising handling.
ther adverse effects		verse environmental effects (e.g. ozone dep ndocrine disruption, global warming potential	

# 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 Not applicable. Annex II of MARPOL 73/78 and the IBC Code

## 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.

Hazard categories

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

Copper complex expressed as Copper oxide (CAS LISTED Proprietary)

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

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#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous Yes

chemical

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 Not regulated. (SDWA)

#### 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
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory

\*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

Issue date Revision date Version #	21-April-2015 01-June-2015 02
Further information	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%
HMIS® ratings	Health: 2* Flammability: 1 Physical hazard: 0 Personal protection: E
NFPA ratings	2 0
Disclaimer	Koppers Performance Chemicals Inc. cannot anticipate all condition and its product, or the products of other manufacturers in combine

Koppers Performance Chemicals 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.

On inventory (yes/no)\* Yes