SAFETY DATA SHEET

1. Identification

Product identifier Alkaline Copper Azoles Treated Wood

Other means of identification 294

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

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Licensees/Customers of Koppers Performance Chemicals Inc.

Company name

Address

Telephone number

Contact person

Emergency phone number

E-mail

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Carcinogenicity Category 1A

OSHA defined hazards Combustible dust

Label elements



Signal word Danger

Hazard statement Causes skin 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.

Response If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. If skin

irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash

before reuse. 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

Chemical name	CAS number	%	
Wood/Wood dust	N/A	> 90	
Copper Carbonate (expressed as elemental copper)	12069-69-1	< 1	
Tebuconazole	107534-96-3	< 1	
Propiconazole	60207-90-1	< 1	

Composition comments

Depending on the additives applied to the treating solution, this wood may also contain <1 % of mold inhibitors, <1% of a wax emulsion, and <1% of a colorant. Components not listed are either non-hazardous or are below reportable limits.

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.

Eve contact Do not rub eve. Immediately flush eve(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. Respiratory ailments and pre-existing skin conditions may be aggravated by exposure to wood dust.

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

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

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

Do not use water jet as an extinguisher, as this will 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

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. For waste disposal, see Section 13.

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. Do not use preserved wood as mulch. 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 a dry, cool and well-ventilated place. Store away from incompatible materials (See Section 10).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA

Components	Туре	Value	Form
Wood/Wood dust (CAS N/A)	PEL	5 mg/m ³	Respirable dust.
		15 mg/m ³	Total fraction.
ACGIH			

ComponentsTypeValueFormWood/Wood dust (CAS N/A)TWA1 mg/m³Inhalable fraction.

U.S. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	Form
Copper Carbonate (expressed as elemental copper) (CAS 12069-69-1)	TWA	1 mg/m ³	Dust and mist.
Wood/Wood dust (CAS N/A)	TWA	1 mg/m ³	Dust

Biological limit valuesNo 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. Shower, hand and eye washing

facilities near the workplace are recommended.

Individual protection measures, 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.

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

Appearance

Physical state Solid. **Form** Chips. Dust. Color Not available. Odor Wood odor. Odor threshold Not available. Hq 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. Not available. Relative density

Solubility(ies)

Solubility (water) Not available. Partition coefficient (n-octanol/water) Not available. **Auto-ignition temperature** Not applicable. **Decomposition temperature** Not available. **Viscosity** Not applicable.

10. Stability and reactivity

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 oxidizing agents. Reducing agents.

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 Handling may cause splinters. 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.

Eye contact Causes serious eye irritation.

Not likely, due to the form of the product. However, ingestion of dusts generated during working Ingestion

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.

> 5000 mg/kg

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Rat

Components	Species	Test Results	
Propiconazole (CAS 60	0207-90-1)		
Acute Oral LD50	Rat	1517 mg/kg	
Propiconazole (CAS 60	0207-90-1)		
Acute			

Dermal LD50

Oral LD50 Rat 1517 mg/kg

Inhalation LC50 Rat > 2.07 mg/l

Skin corrosion/irritation Serious eye damage/eye

irritation

Dust may irritate skin.

Dust may irritate the eyes.

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 mutagenicityNo 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. Not classified.

Specific target organ toxicity -

single exposure

NOT Classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not likely, due to the form of the product.

Chronic effectsChronic exposure to wood dusts can result in pneumonitis, and coughing, wheezing, fever and

the other signs and symptoms associated with chronic bronchitis.

Further information Tebuconazole and propiconazole have been classified by EPA as possible human carcinogens.

12. Ecological information

EcotoxicityThe product is not classified as environmentally hazardous. This product is not expected to leach

harmful amounts of preservative into the environment.

Components Species Test Results

Copper Carbonate (expressed as elemental copper) (CAS 12069-69-1)

Aquatic

EC50 Balanus balanoides 350 - 480 μg/l, 48 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)
Propiconazole (CAS 60207-90-1) 3.5

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 instructionsDispose in accordance with applicable federal, state, and local regulations. Do not discharge into

drains, water courses or onto the ground.

Local disposal regulationsDispose in accordance with all applicable regulations.

Hazardous waste code Not regulated.

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

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

Not applicable.

Annex II of MARPOL 73/78 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.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Copper Carbonate (expressed as elemental copper) (CAS 12069-69-1) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories

Hazard categories Carcinogenicity

Combustible dust

SARA 302 Extremely hazardous substance Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Copper Carbonate (expressed as elemental copper)	12069-69-1	< 1	
Propiconazole Other federal regulations	60207-90-1	< 1	
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

Not listed.

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

Copper Carbonate (expressed as elemental copper) (CAS 12069-69-1)

Propiconazole (CAS 60207-90-1)

Wood/Wood dust (CAS N/A)

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

Wood/Wood dust (CAS N/A)

US. Rhode Island RTK

Copper Carbonate (expressed as elemental copper) (CAS 12069-69-1)

Propiconazole (CAS 60207-90-1)

US. California Proposition 65



WARNING. Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information, go to www.P65Warnings.ca.gov/wood.

International Inventories

Country(s) or region Inventory name On inventory (yes/no)*

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

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
 04-21-2015

 Revision date
 08-20-2018

Version # 04

Further Information HMIS® is a registered trade and service mark of the NPCA.

E - Safety Glasses, Gloves, Dust Respirator

PERCENTAGE OF ACTIVE INGREDIENTS PER RETENTION LEVEL

	0.06 pcf	0.15 pcf	0.31 pcf
Copper Carbonate expressed as Elemental Copper	0.04 - 0.06%	0.10 – 0.20%	0.20 - 0.40%
Tebuconazole	0.001 - 0.002%	0.002 - 0.004%	0.004 - 0.007%
Propiconazole	0.001 - 0.002%	0.002 - 0.004%	0.004 - 0.007%

HMIS® ratings Health: 1*

Flammability: 1 Physical hazard: 0 Personal protection: E

NFPA ratings



Disclaimer

Supplier 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.

^{*}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