

1. Product and Company Identification

Material name Copper Azole Pressure Treated Wood
Product use Treated Wood Products
Chemical description Fungicide Treated Lumber
Product List See Product List found in Section 16
Manufacturer information Georgia-Pacific Treated Lumber LLC
133 Peachtree Street, NE
Atlanta, GA 30303
MSDS Request 404.652.5119
Technical Information 888.427.4778
Chemtrec - Emergency 800.424.9300

2. Hazards Identification

Emergency overview Sawing, sanding or machining wood or wood products can generate dust. Wood dust may ignite or form explosive mixture with air in the presence of an ignition source. Dust may be irritating to eyes, skin and respiratory system.

Target organs Eyes, skin and respiratory system

Potential health effects

- Eyes** Dust or splinters may cause irritation or injury to the eyes.
- Skin** Contact with skin may cause irritation.
- Inhalation** Dusts of this product may cause irritation to the nose, throat, or respiratory tract.
- Ingestion** Not applicable under normal conditions of use. May result in obstruction or temporary irritation of the digestive tract.

3. Composition / Information on Ingredients

Components	CAS #	Percent/Wt
WOOD/WOOD DUST	Not Assigned	60 - 100
MONOETHANOLAMINE	141-43-5	0.5 - 1.5
CHLOROTHALONIL	1897-45-6	0.1 - 1

4. First Aid Measures**First aid procedures**

Eye contact In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. Do not rub the eyes. Get medical attention immediately.

Skin contact In case of contact, immediately flush skin with plenty of water. Call a physician if irritation develops and persists.

Inhalation Remove from area of exposure. If the affected person is not breathing, apply artificial respiration. If persistent irritation, severe coughing or breathing difficulty occurs, seek medical attention.

Ingestion If wood or wood dust is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

5. Fire Fighting Measures

Flammable properties Wood is combustible when exposed to heat or flame. Wood dusts may form explosive mixtures with air in the presence of an ignition source. An airborne dust concentration of 40 g/m³ of air is often used as the lower explosion limit (LEL) for wood dust. Avoid prolonged breathing of wood dust or decomposition products.

Extinguishing media

Suitable extinguishing media Use methods for the surrounding fire.

Protection of firefighters

Protective equipment and precautions for firefighters

Firefighters should wear protective clothing including self-contained breathing apparatus (SCBA) to avoid breathing combustion products. Partially burned dust is especially hazardous if dispersed into the air. Wet down dust to reduce likelihood of ignition or dispersion. Remove burned or wet dust to open, secure area after fire is extinguished.

Explosion data

Sensitivity to static discharge

Not available

Sensitivity to mechanical impact

Not available

Hazardous combustion products

Combustion products may yield irritating and toxic fumes or gases including copper, copper compounds, copper metals, copper oxides and formaldehyde.

6. Accidental Release Measures

Personal precautions

Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Avoid inhalation of dust during clean up.

Methods for cleaning up

Vacuum or wet sweep small wood pieces and dust; place in appropriate container for disposal. Gather larger pieces by an appropriate method. Reduce airborne dust by use of wet methods and prevent scattering by moistening with water.

7. Handling and Storage

Handling

Caution. Do not burn treated wood. Do not use pressure treated wood as mulch. Use only with adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Dust can form an explosive mixture in air. Keep formation of airborne dusts to a minimum. Keep away from heat and sources of ignition.

Storage

Store flat, supported and protected from direct contact with the ground. Keep in a well-ventilated place away from incompatible materials. Store in a cool dry place. Keep away from heat and sources of ignition.

8. Exposure Controls / Personal Protection

WOOD/WOOD DUST (CAS # Not Assigned)

	TWA	STEL	Ceiling
ACGIH	1 mg/m3 TWA (Inhalable)	Not established	Not established
OSHA	5 mg/m3 TWA (Total Dust) (Vacated)	10 mg/m3 (Vacated)	Not established

MONOETHANOLAMINE (CAS # 141-43-5)

	TWA	STEL	Ceiling
ACGIH	3 ppm TWA	6 ppm STEL	Not established
OSHA	3 ppm TWA; 6 mg/m3 TWA	Not established	Not established

CHLOROTHALONIL (CAS # 1897-45-6)

	TWA	STEL	Ceiling
ACGIH	Not established	Not established	Not established
OSHA	Not established	Not established	Not established

Exposure guidelines

Georgia-Pacific Wood Products LLC voluntarily elects to adhere to exposure limits contained in OSHA's 1989 Air Contaminants Standard although certain limits were vacated in 1992. The present OSHA exposure limits governing wood dust is 15 mg/m3 (Total Dust) and 5 mg/m3 (Respirable Fraction).

Engineering controls

Due to the explosive potential of dust when suspended in air, precautions should be taken when sawing, sanding, or machining wood or wood products to prevent sparks or other ignition sources in ventilation equipment. Local exhaust ventilation is recommended when sawing, sanding, or machining this product. General dilution ventilation is recommended in processing and storage areas. Use wet methods, if appropriate, to reduce generation of dust.

Personal protective equipment

Eye / face protection

Safety glasses or goggles are recommended when using this product. Ensure compliance with OSHA's PPE standard (29 CFR 1910.132 and .133) for eye and face protection.

Skin protection	Impervious protective clothing and gloves recommended to prevent drying or irritation of skin. Ensure compliance with OSHA's PPE standards (29 CFR 1910.132 (general) and 138 (hand protection)). Safety shower/eye wash fountain is recommended in the workplace area (29 CFR 1910.151 (c)).
Respiratory protection	A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2)

9. Physical & Chemical Properties

Color	Various
Odor	Resinous wood
pH	Not applicable
Freezing point	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Flammability	Combustible
Flammability limits in air, upper, % by volume	Not applicable
Flammability limits in air, lower, % by volume	40 g/cm ³ Wood dust
Vapor pressure	Not applicable
Vapor density	Not applicable
Specific gravity	<1.0
Solubility (water)	Insoluble
Auto-ignition temperature	400 - 500 °F (204.4 - 260 °C) for Wood

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Contact with incompatible materials. High temperatures. Heat, flames and sparks. Dust may form explosive mixture in air.
Conditions of Reactivity	None known.
Incompatible materials	Strong acids, alkalis, oxidizing agents and drying oils.
Hazardous decomposition products	Combustion products may yield irritating and toxic fumes or gases including copper, copper compounds, copper metal, copper oxides and formaldehyde.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Toxicological information

Toxicological information for components of this product is listed below.

WOOD DUST. Wood dust may cause dryness, irritation, coughing or sinusitis. IARC and NTP classify wood dust as a carcinogen. This classification is based on the increased occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation noted insufficient evidence to associate cancer of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.

MONOETHANOLAMINE. Inhalation of high concentrations of monoethanolamine has been reported to cause pulmonary, liver, kidney and skin damage in experimental animals. Monoethanolamine may be corrosive to the eyes, skin, respiratory system and gastrointestinal tract, and may cause permanent damage to the eyes. Monoethanolamine may be absorbed through the skin in harmful amounts and may cause allergic skin reactions. Monoethanolamine exposures may cause damage to the nervous system, lungs, liver or kidneys.

COPPER AND COPPER COMPOUNDS. Copper and copper compounds expressed as Basic Copper Carbonate in this product contains copper salts which, upon ingestion of high oral doses, can cause gastrointestinal disturbances, anemia, and secondary liver and kidney damage.

CHLOROTHALONIL. Occupational exposure to chlorothalonil may occur during its use as a pesticide or preservative. Studies on rats and mice have suggested that technical chlorothalonil, when fed at high levels in the diet, may have oncogenic potential to these laboratory animals. However, neither chlorothalonil nor its metabolites interact with DNA and thus are not mutagenic. Tumor formation has been related to a non-genotoxic mechanism of action from which threshold levels have been established on rats and mice. Comprehensive dietary and worker exposure studies have shown exposure levels for humans to be well below these threshold levels. However, the International Agency for Research on Cancer (IARC) has classified this material as a Group 2B substance, Possibly carcinogenic to humans.

Toxicological information (Ingredients)

MONOETHANOLAMINE (CAS # 141-43-5)

Toxicology Data - Selected LD50s and LC50s

Oral LD50 Rat: 1720 mg/kg

CHLOROTHALONIL (CAS # 1897-45-6)

Toxicology Data - Selected LD50s and LC50s

Oral LD50 Rat: 10000 mg/kg
Dermal LD50 Rabbit: 2000 mg/kg
Dermal LD50 Rat: 2500 mg/kg
Inhalation LC50 Rat: 0.217 mg/l/4h

Carcinogenicity

CHLOROTHALONIL (CAS # 1897-45-6)

IARC - Group 2B (Possibly Carcinogenic to Humans)

U.S. - OSHA - Hazard Communication Carcinogens

Monograph 73 [1999], Supplement 7 [1987]
Present

WOOD/WOOD DUST (CAS # Not Assigned)

IARC - Group 1 (Carcinogenic to Humans)

NTP (National Toxicology Program) - Report on Carcinogens - Known Human Carcinogens

U.S. - OSHA - Hazard Communication Carcinogens

Monograph 62 [1995]
Known Human Carcinogen

Present

Mutagenicity

Not available.

Reproductive effects

Not available.

Teratogenicity

Not available.

Synergistic materials

Not applicable.

12. Ecological Information

Ecotoxicity This product is not expected to leach harmful amounts of preservative into the environment. The wood preservative contains fungicides and insecticides, which, when released into the environment, may adversely affect plants and wildlife.

CHLOROTHALONIL (CAS # 1897-45-6)

Ecotoxicity - Freshwater Algae Data
Ecotoxicity - Freshwater Fish Species Data

72 Hr EC50 Scenedesmus subspicatus: 0.57 mg/L
96 Hr LC50 Oncorhynchus mykiss: 0.012 mg/L [semi-static]; 96 Hr LC50 Oncorhynchus mykiss: 0.0076 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 0.0221-0.032 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 0.045-0.057 mg/L [static]

MONOETHANOLAMINE (CAS # 141-43-5)

Ecotoxicity - Freshwater Algae Data
Ecotoxicity - Freshwater Fish Species Data

72 Hr EC50 Scenedesmus subspicatus: 15 mg/L
96 Hr LC50 Pimephales promelas: 227 mg/L [flow-through]; 96 Hr LC50 Brachydanio rerio: 3684 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 300-1000 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 114-196 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: >200 mg/L [flow-through]

Environmental effects Pressure treated wood should not be used where it may come in direct or indirect contact with drinking water. Pressure treated wood should not be used in circumstances where preservative may become a component of food, animal feed or beehives.

13. Disposal Considerations

Disposal instructions Do not burn treated wood. Do not use pressure treated wood as mulch. 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.

14. Transport Information

Department of Transportation (DOT) Requirements

This product is not regulated as a hazardous material by the United States (DOT) transportation regulations.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

15. Regulatory Information

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Section 313 hazardous chemical Yes

US federal regulations Copper Azole Pressure Treated Wood Products contain a copper, tebuconazole and propiconazole compound, an EPA registered product. This product is pressure treated with a FIFRA registered wood preservative.

CHLOROTHALONIL (CAS # 1897-45-6)

U.S. - CERCLA/SARA - Section 313 - Emission Reporting 0.1 % de minimis concentration

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

MONOETHANOLAMINE (CAS # 141-43-5)

Canada - WHMIS - Ingredient Disclosure List 1 %

16. Other Information

Product list

CA-C Treated Lumber Above Ground & Ground Contact

µCA-C Treated Lumber Above Ground & Ground Contact

HMIS® ratings

Health: 1*
Flammability: 1
Physical hazard: 0
Personal protection: X

NFPA ratings

Health: 1
Flammability: 1
Instability: 0

Other information

WOOD PRODUCTS

CAUTION!

SAWING, SANDING OR MACHINING WOOD PRODUCTS CAN PRODUCE WOOD DUST, WHICH CAN CAUSE A FLAMMABLE OR EXPLOSIVE HAZARD.

WOOD DUST MAY CAUSE LUNG, UPPER RESPIRATORY TRACT, EYE OR SKIN IRRITATION. SOME WOOD SPECIES MAY CAUSE DERMATITIS AND/OR RESPIRATORY ALLERGIC EFFECTS. EXPOSURE TO WOOD DUST MAY CAUSE CANCER.

PRECAUTIONS

Avoid dust contact with ignition source. Avoid frequent or prolonged inhalation of wood dust. Protect eyes from flying particles. Avoid dust contact with skin and wash exposed areas.

FIRST AID

If inhaled, remove to fresh air. In case of contact, flush eyes and skin with water. If irritation persists, call a physician.

HANDLING AND STORAGE

Avoid frequent or prolonged inhalation of wood dust. Protect eyes from flying particles. Avoid contact with skin and wash exposed areas thoroughly. Change protective clothing and gloves when signs of contamination appear.

Wood products are combustible and, therefore, should not be subjected to temperatures exceeding the autoignition temperature. Wet down wood dust generated by sawing, sanding, or machining to reduce the likelihood of ignition or dispersion of dust into the air.

For additional information, see the Georgia-Pacific Treated Lumber LLC Material Safety Data Sheet for this product.

Product Safety and Health Information
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Atlanta, GA 30348-5605

Disclaimer

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Georgia-Pacific and its subsidiaries make no warranty of any kind, expressed or implied, concerning the accuracy or completeness of the information and data herein. The implied warranties of merchantability and fitness for a particular purpose are specifically excluded. Georgia-Pacific and its subsidiaries will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.

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Prepared by

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