SAFETY DATA SHEET (SDS)

(Updated January 2024)

1. Product and Company Identification

Material name	**emtek Heavy Equipment Mat**
Product use	Building Materials – Structural, Industrial
Product List	See Product List found in Section 16
Synonym(s)	Lumber Products * Engineered Lumber
Chemical description	Solid wood, such as lumber and wood products and engineered wood products bonded with thermoset polymer glue (polyurethane based). Treated with micronized copper azole (MCA).
Manufacturer information	Anthony Hardwood Composites, Inc. 606 E. Center Street Sheridan, AR 72150 Technical Information 870.942.4000 Chemtrec – Emergency 800.424.9300
Important information	• Do not burn preserved wood • Do not use preserved wood as mulch • Treated or untreated wood dust may cause eye, skin, and respiratory irritation • Some untreated wood species may cause allergic skin or respiratory effects in sensitized individuals • Wear dust mask & goggles when cutting or sanding wood • Wear gloves when working with wood • Prolonged contact with treated wood during construction or use may cause skin irritation • Some preservative may migrate into the soil/water or dislodge from wood

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. Product dust may be irritating to eyes, skin or respiratory system.
Target organs	Eyes, skin and respiratory system
Potential health effects	Treated wood may cause eye skin and respiratory irritation.
Eyes:	Contact with wood and/or wood dust may cause irritation to the eyes. Symptoms can include irritation, redness, scratching of the cornea, and tearing.
Skin:	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.
Inhalation:	Wood dust, treated or untreated, is irritating to the nose, throat and lungs. Symptoms may include nasal dryness, deposits or obstructions in the nasal passages, coughing, sneezing, dryness and soreness of throat and sinuses, hoarseness, and wheezing. 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.
Ingestion:	Ingestion of wood or wood dust is unlikely. If ingestion does occur, slight gastrointestinal irritation may result. Certain species of wood and their dusts may contain natural toxins, which can have adverse effects in humans.
Chemical listed as a carcinogen or potential carcinogen?:	ACGIH, NIOSH and IARC classify wood dust as a human carcinogen or occupational carcinogen. This classification is based on an increased incidence of nasal and paranasal cancers in people exposed to wood dusts.

Medical conditions generally aggravated by exposure:	Pre-existing eye, respiratory system and skin conditions.
Toxicity:	Acute toxicity testing has not been performed on the treated wood.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Wood / Wood Dust	Not Assigned	95-98
Composition comments	The lumber is air or kiln dried. No chemical residue is left on the surface of the board. Wood products are bonded with thermoset polymer glue.	
Copper Carbonate expressed as elemental copper	12069-69-1	<1.0
Tebuconazole	107534-96-3	<0.05%

Percentage of Active Ingredients Per Retention Level

	0.06 pcf	0.15 pcf	0.23 pcf
Copper carbonate expressed as Elemental Copper	0.15% - 0.25%	0.35% - 0.65%	0.55% - 0.95%
Tebuconazole	0.006% - 0.01%	0.01% - 0.03%	0.02% - 0.05%

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:	If irritation develops, wash with soap and water. Continue flushing skin with water for 15 minutes. Get medical attention if irritation persists. If wood splinters are injected under the skin, get medical attention immediately.
Inhalation:	Remove from area of exposure to fresh air. If the affected person is not breathing, apply artificial respiration. If persistent irritation, severe coughing or breathing difficulty occurs, get medical attention.
Ingestion:	If wood product or wood dust is swallowed, get immediate medical attention or advice. Do not induce vomiting.
Note to physician:	Respiratory ailments and pre-existing skin conditions may be aggravated by exposure to wood dust.

5. Fire Fighting Measures

General fire hazards	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 breathing dust of decomposition products.
Extinguishing media	
Suitable extinguishing media	Use methods for the surrounding fire
Protection of firefighters	
Protective equipment and precautions for	Firefighters should wear full protective clothing including self contained breathing apparatus. Partially burned dust is especially hazardous if dispersed into the air. Wet

firefighters	down to reduce likelihood of ignition of 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	Hazardous decomposition products may include irritating fumes or gases including carbon monoxide, aldehydes or organic acids.

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

7. Handling and Storage

US DOT shipping description:	Not regulated
Handling	Dust can form an explosive mixture in air. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Avoid working with freshly treated wet wood. If not possible, use personal protective equipment as required. Clothing should be removed and replaced if it becomes wet due to contact with freshly treated wood. Avoid frequent or prolonged inhalation of wood dust. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Keep away from heat and sources of ignition. Keep formation of airborne dusts to a minimum. Do not eat, drink or smoke when handling this material or in areas where dusts of this product are present.
Other precautions	Do not generate airborne dusts in the presence of an ignition source when sawing, cutting or grinding wood. Wash hands after handling and before eating. Maintain good housekeeping procedures, such as sweeping regularly to avoid accumulation of dusts.
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. Store away from excessive heat, sparks and open flame.
Waste disposal methods	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.

8. Exposure Controls/Personal Protection

Exposure Guidelines The following exposure guidelines are given below:

Wood/Wood Dust (CAS # Assigned)

	TWA	STEL	Ceiling
ACGIH (2023)	1 mg/m3 TWA (Inhalable)	Not established	Not established
OSHA	15 mg/m³ (total dust), 5 mg/m³ (respirable dust)	Not established	Not established

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 the ventilation equipment. Local exhaust ventilation is recommended when sawing, sanding, or machining this product. General dilution of ventilation is recommended in processing and storage areas. Use wet methods, if appropriate, to reduce generation of dust.

Personal Protective Equipment

Eye/Face Protection: Wear safety glasses with side shields when handling, cutting, sanding or grinding this material. Use a face shield during processes that may generate excessive dusts and splinters. Ensure compliance with OSHA's PPE standard (29 CFR 1910.132 and .133) for eye and face protection.

Skin Protection: Wear chemical resistant (rubber, neoprene or nitrile) gloves when handling freshly treated wood at the treating plant. Otherwise wear impervious protective clothing and gloves recommended to prevent drying or irritation of hands. 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 under OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

Other Protective Clothing or Equipment: Eye wash fountain is recommended

Work/Hygienic Practices: Launder work clothes frequently.

9. Physical and Chemical Properties

Appearance	Rigid boards or panels
Color	Various
Odor	Resinous wood
Odor threshold	Not available
Physical state	Solid
pH	Not applicable
Melting point	Not applicable
Freezing point	Not applicable
Flash point	Not applicable

Boiling point	Not applicable
Evaporation rate	Not applicable
Flammability	Combustible
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	40 g/cm3 for wood dust
Vapor pressure	Not applicable
Vapor density	Not applicable
Specific gravity	Variable
Relative density	Not available
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not applicable
Auto-ignition temperature	399.2 – 500 F (204.4-260 C) for wood
Decomposition temperature	Not available
Bulk density	Not available

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 mixtures with air.
Conditions of reactivity	None known.
Incompatible materials	Strong acids, alkalis, oxidizing agents and drying oils.
Hazardous decomposition products	Thermal decomposition may emit irritating fumes or gases of carbon monoxide, carbon dioxide, aldehydes, or organic acids.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Toxicological information

No toxicological data available for this product. Toxicological information for components of this product is listed below.

Repeated inhalation of dust from this product may result in respiratory irritation.

Wood dust – Wood dust may cause dryness, irritation, coughing or sinusitis. IARC and NTP classify wood 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.

Irritancy Product dust may cause irritation to eyes, skin and/or lungs.

Sensitization No information available

Carcinogenicity

Wood/Wood dust (CAS # Not Assigned)

IARC – Group 1 (Carcinogens to Humans)	Monograph 62 [1995]
NTP (National Toxicology Program) – Report on Carcinogens – Known Human Carcinogens	Known Human Carcinogen
US – OSHA Hazard Communication Carcinogens	Present

12. Ecological Information

Ecotoxicity

This product is not expected to leach harmful amounts of preservative into the environment. However, the wood preservatives in this product contain fungicides and insecticides, which when released into the environment, are expected to adversely affect or destroy contaminated plants. They may be harmful or fatal to wildlife. Exotoxicity testing had not been performed on the treated wood.

Environmental effects No information available.

13. Disposal Considerations

Disposal Instructions

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 regulations.

14. Transportation Information

Department of Transportation (DOT) Requirements

This product is not regulated as a hazardous material by the US DOT transportation regulations.

15. Regulatory Information

US Federal regulations

Wood and wood products are considered manufactured articles and are exempt under OSHA's Hazard Communication Standard 29 CFR 1910.1200. Wood dust, a by-product generated from sawing sanding or machining wood and wood products, is considered a hazardous material and is regulated under the Hazard Communications Standard 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Immediate hazard – No Delayed Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard - No
Section 302 Extremely Hazardous Substance	No
Section 311 Hazardous Chemical	No
Section 313 Hazardous Chemical	No

16. Other Information

Product List	Engineered Lumber
NFPA Rating	Health: 1 Flammability: 1 Instability: 0
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