

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

<b>Material name</b>	<b>emtek Heavy Equipment Mat</b>
<b>Product use</b>	Building Materials – Structural, Industrial
<b>Product List</b>	See Product List found in Section 16
<b>Synonym(s)</b>	Lumber Products * Engineered Lumber
<b>Chemical description</b>	Solid wood, such as lumber and wood products and engineered wood products bonded with thermoset polymer glue (formic acid and resorcinol based).
<b>Manufacturer information</b>	Anthony Hardwood Composites, Inc. 606 E. Center Street Sheridan, AR 72150 Technical Information 870.942.4000 Chemtrec – Emergency 800.424.9300

## 2. Hazards Identification

<b>Emergency overview</b>	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.
<b>Target organs</b>	Eyes, skin and respiratory system
<b>Potential health effects</b>	
<b>Eyes</b>	Dust or splinters may cause irritation or injury to the eyes.
<b>Skin</b>	Contact with skin may cause irritation.
<b>Inhalation</b>	Dusts of this product may cause irritation to the nose, throat, or respiratory tract.
<b>Ingestion</b>	Due to material form and application, ingestion is considered unlikely. May result in irritation of the digestive tract.

## 3. Composition / Information on Ingredients

<b>Components</b>	<b>CAS #</b>	<b>Percent</b>
<b>Wood / Wood Dust</b>	Not Assigned	95-98
<b>Composition comments</b>	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.	

## 4. First Aid Measures

<b>First aid procedures</b>	
<b>Eye contact</b>	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.
<b>Skin contact</b>	If irritation develops, wash with soap and water. Get medical attention if irritation persists.
<b>Inhalation</b>	Remove from area of exposure. If the affected person is not breathing, apply artificial respiration. If persistent irritation, severe coughing or breathing difficulty occurs, get medical attention.
<b>Ingestion</b>	If wood product or wood dust is swallowed, get immediate medical attention or advice. Do not induce vomiting.

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## 5. Fire Fighting Measures

<b>General fire hazards</b>	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/m <sup>3</sup> of air is often used as the lower explosion limit (LEL) for wood dust. Avoid breathing dust of decomposition products.
<b>Extinguishing media</b> Suitable extinguishing media	Use methods for the surrounding fire
<b>Protection of firefighters</b> Protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus. Partially burned dust is especially hazardous if dispersed into the air. Wet down to reduce likelihood of ignition of dispersion. Remove burned or wet dust to open, secure area after fire is extinguished.
<b>Explosion data</b> Sensitivity to static discharge	Not available
Sensitivity to mechanical impact	Not available
<b>Hazardous combustion products</b>	Hazardous decomposition products may include irritating fumes or gases including carbon monoxide, aldehydes or organic acids.

## 6. Accidental Release Measures

<b>Personal Precautions</b>	Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Avoid inhalation of dust during clean-up.
<b>Methods for Clean-up</b>	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

<b>Handling</b>	Dust can form an explosive mixture in air. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Use personal protective equipment as required. 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.
<b>Storage</b>	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.

## 8. Exposure Controls/Personal Protection

<b>Exposure Guidelines</b>	Anthony Hardwood Composites, Inc. 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/m <sup>3</sup> (Total Dust) and 5 mg/m <sup>3</sup> (Respirable Fraction).
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## Wood/Wood Dust (CAS # Assigned)

	TWA	STEL	Ceiling
ACGIH	1 mg/m <sup>3</sup> TWA (Inhalable)	Not established	Not established
OSHA	5 mg/m <sup>3</sup> TWA (Total Dust) (Vacated)	10 mg/m <sup>3</sup> (Vacated)	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

Safety glasses 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 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).

## 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/cm <sup>3</sup> for wood dust
Vapor pressure	Not applicable
Vapor density	Not applicable
Specific gravity	Variable
Relative density	Not available

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<b>Solubility (water)</b>	Insoluble
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Auto-ignition temperature</b>	399.2 – 500 F (204.4-260 C) for wood
<b>Decomposition temperature</b>	Not available
<b>Bulk density</b>	Not available

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	Contact with incompatible materials. High temperatures. Heat, flames and sparks. Dust may form explosive mixtures with air.
<b>Conditions of reactivity</b>	None known.
<b>Incompatible materials</b>	Strong acids, alkalis, oxidizing agents and drying oils.
<b>Hazardous decomposition products</b>	Thermal decomposition may emit irritating fumes or gases of carbon monoxide, carbon dioxide, aldehydes, or organic acids.
<b>Possibility of hazardous reactions</b>	Will not occur.

## 11. Toxicological Information

<b>Toxicological information</b>	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.	
<b>Irritancy</b>	Product dust may cause irritation to eyes, skin and/or lungs.	
<b>Sensitization</b>	No information available	
<b>Carcinogenicity</b>		
	<b>Wood/Wood dust (CAS # Not Assigned)</b>	
	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

<b>Ecotoxicity</b>	Not available
<b>Environmental effects</b>	Not available

## 13. Disposal Considerations

<b>Disposal Instructions</b>	Under RCRA, it is the responsibility of the user of the product to determine, at the
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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 NFPA Rating

Engineered Lumber  
Health: 1  
Flammability: 1  
Instability: 0

### Disclaimer

The information and data contained 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 in compliance with applicable federal, state and local laws and regulations. Anthony Hardwoods Composites, Inc. makes 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. Anthony Hardwoods Composites, Inc. will not be liable for any claims relating to any party's use 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.

### Effective Date

May 7, 2009