

**FIBER COMPOSITES, LLC**  
**MATERIAL SAFETY DATA SHEET**

**fiberon® DECKING**

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**MSDS - Gray, Cedar, Brown and Redwood - 2007**

**1.) PRODUCT AND COMPANY IDENTIFICATION**

Approval Date: 2-17-07

PRODUCT NAME: **fiberon®** Series Decking including Home Select  
SUPPLIER: FIBER COMPOSITES, LLC  
181 RANDOM DRIVE  
NEW LONDON, NC 28127

24 HOUR EMERGENCY: 704 -948-0240  
PRODUCT AND MSDS INFORMATION: 704 -463-7120

**2.) COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAMES AND SYNONYMS:

- 1.) WOOD FIBER, WOOD DUST OR WOOD FLOUR
- 2.) POLYETHYLENE

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

<u>SUBSTANCE NAME</u>	<u>WEIGHT PERCENTAGE</u>
WOOD FIBER DUST	45-60 %

NOTE: WOOD FIBER IS CONTAINED IN A POLYETHYLENE MATRIX. POLYETHYLENE IS A THERMOPLASTIC MATERIAL. THIS MATRIX CONTAINS PREDOMINANTLY WOOD FIBER AND POLYETHYLENE. THE POLYETHYLENE CAN BE SOURCED AS VIRGIN OR REGRIND (RECYCLED) MATERIALS. THE STANDARD PRODUCT IS APPROXIMATELY 50% THERMOPLASTIC AND 50% WOOD FIBER.

See Section 8 for exposure limits (if applicable).

**3.) HAZARDS IDENTIFICATION**

UNITED STATES OF AMERICA OSHA HAZARD COMMUNICATION STANDARD: This product may be used in applications that produce wood dust fibers. According to OSHA CFR 1910.1200, certain wood fibers are considered hazardous if the workplace airborne concentration exceeds the OSHA or ACGIH exposure limits (See section 8).

EMERGENCY RESPONSE DATA: Light gray, cedar or redwood solid. Exposure to fire can generate toxic fumes. High dust levels may create potential for explosion. DOT ERG No. – NA

#### **4.) FIRST AID MEASURES**

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water. Launder contaminated clothing before reuse.

INHALATION: If respiratory irritation, cough shortness of breath, wheezing or chest tightness occurs after exposure to dust, remove from further exposure, seek immediate medical assistance and call for a physician.

INGESTION: Not expected to be a problem when ingested in small quantities. If uncomfortable, seek medical assistance.

#### **5.) FIRE-FIGHTING MEASURES**

EXTINGUISHING MEDIA: Water

SPECIAL FIRE FIGHTING PROCEDURES: Use water to keep fire-exposed product cool. For fires in enclosed area, fire fighters must use self-contained breathing apparatus.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Exposure to fire can generate toxic fumes. High dust levels may create potential for explosion.

Flash Point:

Flame Spread Index:

Flammable Limits – LEL: NA

Flammable Limits – UEL: NA

NFPA HAZARD ID:    Health: 0    Flammability: 1    Reactivity: 0.

HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, Carbon Monoxide, Acetaldehyde, Formaldehyde, Formic Acid and Acetic Acid.

#### **6.) ACCIDENTIAL RELEASE MEASURES**

NOTIFICATION PROCEDURE: None

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Where dusty conditions are created as a result of cutting or sawing, wet down material then sweep or vacuum for disposal. Personnel performing cleanup must use protective equipment.

ENVIRONMENTAL PRECAUTIONS: Not expected to be a problem.

PERSONAL PRECAUTIONS: See Section 8.

**7.) HANDLING AND STORAGE**

**HANDLING:** **fiberon®** Series Decking is not intended for load-bearing or heavy structural applications. Please consult Fiber Composites’ literature for proper usage. The density of **fiberon®** Series Decking material is heavier as compared to most traditional lumber products. Therefore, the user must employ proper handling to prevent damage or injury.

**STORAGE:** Store **fiberon®** Series Decking away from strong oxidizing agents or combustible material.

**8.) EXPOSURE CONTROLS / PERSONAL PROTECTION**

**VENTILATION:** Use and work in a well-ventilated area.

**RESPIRATORY PROTECTION:** Approved dust respirators must be used for dusty conditions or if breathing of dusts is probable.

**EYE PROTECTION:** Safety glasses with side shields or goggles should be worn to protect against dust particles in the air.

**SKIN PROTECTION:** No special equipment required. Good personal hygiene should be followed.

<u>SUBSTANCE NAME</u>	<u>SOURCE</u> (Agency)	<u>TWA</u> (ppm mg / m <sup>3</sup> )	<u>STEL</u> (ppm mg / m <sup>3</sup> )
Wood Fiber Dust			
Hardwood	OSHA	5	
Softwood	OSHA	5	
Oak Hardwood	ACGIH	1	
Softwood	ACGIH		10

**NOTE:** Limits as displayed are for guidance only. Follow application regulations.

**9.) PHYSICAL AND CHEMICAL PROPERTIES**

Physical properties are given which are considered representative. For specific physical properties refer to the Product Data Sheet.

<b>APPEARANCE:</b>	Solid
<b>COLOR:</b>	Cedar which fades to a light peach after several weeks. Gray which fades to a light gray after several weeks. Redwood which fades to a light red after several weeks. Brown which fades to a light brown after several weeks
<b>ODOR:</b>	None
<b>PH VALUE:</b>	NA
<b>BOILING POINT:</b>	NA
<b>MELTING POINT:</b>	Approximately 130 C

**9.) PHYSICAL AND CHEMICAL PROPERTIES -continued**

FLASH POINT:	398 C
FLAMMABILITY:	SwRI – Flame Spread Index = 115
SELF-IGNITION:	437 C
SMOKE DEVELOPED VALUE:	135
WATER ABSORPTION:	.5% by weight
COEF. OF MOISTURE EXPANSION:	.5% by thickness
WATER SOLUBILITY:	Negligible
FUNGUS RESISTANCE:	No Decay
TERMITE RESISTANCE:	Light Attack Rating = 9.6 (10 Max)
COEF OF THERMAL EXPANSION:	$2.8 \times 10^{-5}$ (1/C)
VAPOR DENSITY:	NE
EVAPORATION RATE:	NE
POUR POINT:	NA
FREEZING POINT:	NE
VOLATILE ORGANIC COMPOUND:	NE

NOTE: NA – Not Applicable      NE – Not Established

For additional information, contact customer service.

**10.) STABILITY AND REACTIVITY**

STABILITY (THERMAL, LIGHT, WEATHER, ETC.):	Stable (color does fade).
CONDITIONS TO AVOID:	Heat and flame. Build up of dusts.
INCOMPATIBILITY:	Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Smoke, carbon monoxide, acetaldehyde, formaldehyde, formic acid & acetic acid.
HAZARDOUS POLYMERIZATION:	Will not occur.

**11.) TOXICOLOGICAL DATA****ACUTE TOXICOLOGY**

ORAL TOXICITY (RATS):	NE
DERMAL TOXICITY (RABBITS):	NE
INHALATION TOXICITY (RATS):	NE
EYE IRRITATION (RABBITS):	NE
SKIN IRRITATION (RABBITS):	NE

NOTE: NE – Not Established

**CHORONIC TOXICOLOGY**

IARC has determined and summarized that there is sufficient evidence to classify wood fiber as a human carcinogen. Exposure to wood fiber is severely reduced when wood fiber is encased by a polymer matrix.

**12.) ECOLOGICAL INFORMATION**

ENVIRONMENTAL FATE AND EFFECTS: Not Established

**13.) DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL: Dispose of waste as normal refuse.

**14.) TRANSPORT INFORMATION**

USA DOT:    Not regulated by US DOT.

IMO:        Not regulated by IMO.

IATA:       Not regulated by IATA

**15.) REGULATORY INFORMATION**

GOVERNMENT INVENTORY STATUS: All components comply with TSCA.

U.S. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III:  
Fiber Composites' **fiberon®** Series Decking contains no chemicals reportable under SARA (313) toxic release program.

USE: Composite Lumber Products for Decking

INGREDIENTS:

Wood fiber                                    40-60 % by weight

Polyethylene                                60-40 % by weight

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