

**1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT DESCRIPTION:** UltraShield Composite Decking

**DESCRIPTION:** Polyethylene Co-Extrusion

**ITEM #:** Not Established

**APPEARANCE AND ODOR:** Composite Wood, Faint Odor

**SUPPLIER:**

NewTechWood Ltd.

19111 Walden Forest Dr. Suite B, Humble, TX 77346 USA

Telephone: 281-570-6450

China Factory: Huidong Meixin Plastic Lumber Products Manufacturing Co., Ltd

NGA Industrial Park, Daling, Huidong, Guangdong, PRC. 516321

Telephone: 86-752-8138888

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

**CHEMICAL NAMES AND SYNONYMS:**

1. WOOD FIBER
2. POLYETHYLENE

**INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:**

<u>SUBSTANCE NAME</u>	<u>WEIGHT PERCENTAGE</u>
WOOD FIBER	60 - 65%
POLYETHYLENE	35 - 40%

**NOTE: WOOD FIBER IS CONTAINED IN A POLYETHYLENE MATRIX. POLYETHYLENE IS A THERMOPLASTIC MATERIAL. THIS MATRIX CONTAINS PREDOMINANTLY WOOD FIBER AND POLYETHYLENE. THE POLYETHYLENE IS SOURCED MAINLY FROM RECLAIMED/RECYCLED PLASTIC BOTTLES AND GROCERY FILM; WOOD FIBER IS SOURCED FROM RECLAIMED/RECYCLED SAW DUST, FURNITURE, AND WASTE PALLETS.**

### 3. HAZARD IDENTIFICATION

**U.S. OSHA HAZARD COMMUNICATION STANDARD:** This product may be used in application that produce wood dust fibers. According to OSHA 29 CFR 1910.1200, certain wood fibers and carbon black are considered hazardous if the workplace airborne concentrations exceeds the OSHA or ACGIH exposure limits (see section 8).

**EMERGENCY RESPONSE DATA:** Gray, teak, and red 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.

### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Water

**SPECIAL FIRE FIGHTING PROCEDURES:** Use water to keep fire exposed product cool. For fires in enclosed areas, 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 C(F): > 370 (698) (Flame Spread Index = 80). Flammable limits - LEL: NA, UEL: N/A.

**6. ACCIDENTAL RELEASE MEASURES**

**NOTIFICATION PROCEDURE:** None

**PROCEDURES IF MATERIAL IS RELEASE 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.

**7. HANDLING AND STORAGE**

**HANDLING:** NewTechWood Decking is not intended for load-bearing or heavy structural applications. Please consult NewTechWood company literature for proper usage. The density of NewTechWood’s composite lumber is heavier than compared to most traditional lumber products. Therefore, the user must employ the proper handling to prevent damage or injury. Do not burn in fireplace or use firewood.

**STORAGE:** Store NewTechWood Decking away from strong oxidizing agents or combustible material. Do not store in open or unlabeled containers.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**VENTILATION:** Use in well ventilated area

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

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

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

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

**APPEARANCE:** Solid

**COLOR:** Red  
Gray

**ODOR:** None

**PH VALUE:** N/A

**BOILING POINT:** N/A

**MELTING POINT:** Approximately 131 C

**FLASH POINT:** 399 C

**FLAMMABILITY:** SwRI - Flame Spread Index = 115

**SELF IGNITION:** 437 C

**SMOKE DEVELOPED VALUE:** 135

**WATER ABSORPTION:** 0.12% by weight

**COEF. OF MOISTURE EXPANSION:** 0.11% by weight

**WATER SOLUBILITY:** Negligible

**FUNGUS RESISTANCE:** No Decay

**VAPOR DENSITY:** NE

**EVAPORATION RATE:** NE

**POUR POINT:** NA

**FREEZING POINT:** NE

**VOLATILE ORGANIC COMPOUND:** NE

## 10. STABILITY AND REACTIVITY

**STABILITY (THERMAL, LIGHT, ETC.):** Stable.

**CONDITIONS TO AVOID:** Heat and flame. Build up of dusts.

**INCOMPATIBILITY (MATERIALS TO AVOID):** 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):** Not established.

**Dermal Toxicity (Rabbits):** Not established.

**Inhalation Toxicity (Rats):** Not established.

**Eye Irritation (Rabbits):** Not established.

**Skin Irritation (Rabbits):** Not established.

### CHRONIC 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 CONSIDERATION

**WASTE DISPOSAL:** Dispose of waste as normal refuse.

## 14. TRANSPORT INFORMATION

**USA DOT:** Not regulated by US DOT.

**IMO:** Not regulated by IMO.

**15. REGULATORY INFORMATION**

**GOVERNMENT INVENTORY STATUS:** All components comply with TSCA.

**U.S. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III:**  
This product contains no “EXTREMELY HAZARDOUS SUBSTANCES.”

**USE:** Composite Lumber Products for Decking

**INGREDIENTS:**

Wood fiber                      60 - 65% by weight

Polyethylene                    35 - 40% by weight

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