



2021
MATERIAL SAFETY DATA SHEET
Infinity[®]

Manufacturers Details

Date of Publication:

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Product name: *Infinity*® co-extruded composite.

Product use: This product is primarily used for deck boards, cladding and other lumber replacement items.

Customer Care: 866-323-476

Email: CustomerCare@FortressBP.com

Hazard Identification

This material is a non-hazardous.

Emergency Overview

Keep away from contact with oxidizing materials. Dust may form an explosive mixture with air. Use exhaust ventilation when cutting, sawing or grinding in an enclosed area. Dust may cause irritation to eyes, skin, and upper respiratory tract. When cutting, sanding, or grinding avoid inhalation and wear safety glasses. Use puncture resistant gloves. Wash thoroughly after handling should irritation occur.

Composition and Information on Ingredients

Substance name	Approx weight %	CAS Number	Agency	Exposure limits	Comments
Bamboo fiber	55 - 60%	N/A	OSHA OSHA ACGIH ACGIH	PEL-TWA 15 mg/m3 PEL-TWA 5 mg/m3 TLV-TWA 3 mg/m3 TLV-STEL 10 mg/m3	Total dust Respiratory dust fraction Respiratory dust fraction Inhabitable particles
HDPE - polyethylene	40-45%	9002-99-4	N/A	N/A	Thermoplastic
Additives					
Cap		N/A	N/A	Non-hazardous material	N/A
Anti mold agent					
Coupling agent					
Anti UV agent					
Color pigment					

NOTE

Bamboo is a species of the grass family which has distinct anatomical differences from that of lumber. Therefore, bamboo would be regulated as an organic dust in a category known as "Particulates Not Otherwise Regulated" (PNOR), or Nuisance Dust by OSHA. The ACGIH classifies dust or particulate in this category as "Particulates Not otherwise Specified". Bamboo fibers in Fortress Building Products boards are contained in a High-Density-Polyethylene (HDPE) Matrix, consisting mainly of polyethylene plastic and bamboo fiber. HDPE is a thermoplastic materials. HDPE may be sourced as both virgin and recycled materials. Standard material consists of 40 % HDPE and 60 % bamboo fibres.

First Aid Measures

Eye Contact:

Following exposure to dust: flush thoroughly with water. If irritation occurs, call a physician.

Skin Contact:

Exposure to dust is not expected to be a problem. If irritation does occur, wash contact areas with soap and water. Launder contaminated clothing before reuse.

Inhalation:

If respiratory issues such as extensive coughing, shortness of breath, wheezing or chest tightness occurs after exposure to dust, avoid further exposure and seek immediate medical assistance.

Ingestion:

Small amounts of ingestion of the material are not usually problematic. However, if uncomfortable, seek medical assistance.

Firefighting measures

Extinguishing Media to Keep on Hand:

Water, foam, dry chemical.

Special Fire-Fighting Procedures:

Use extinguishing media most appropriate for fire type. Douse affected and surrounding areas with water in normal circumstances. For fires in enclosed areas, firefighters must use self-contained breathing apparatus and suitable protective gear.

Special Protective Equipment:

For fires in enclosed areas, firefighters must use self-contained breathing apparatus. The product will produce smoke once ignited.

Unusual Fire and Explosion Hazards:

High dust levels may lead to the potential for explosions in certain conditions.

NFPA Hazard ID:

Health: 0, Flammability: 1, Reactivity: 0.

Hazardous Decomposition Product:

If ignited, smoke, carbon dioxide, carbon monoxide, and other harmful gases may be emitted.

Accidental Release Measures

Where dusty conditions are created as a result of cutting or sawing, wet the saw dust down then sweep or vacuum for disposal. Personnel performing clean-up must use protective appropriate equipment such as dust masks.

Handling and Storage

Notification Procedures:

- Bamboo plastic composite is heavier than normal wood. Remember to use safe lifting procedures.
- Boards should be stored undercover.
- When storing boards on site, a pallet should be used. Or the boards should be on a flat surface.
- A groundsheet may be used if there is no other option.
- Boards should be securely packed. Do not over-stack as this may result in unstable loads that may cause injury.
- Keep away from oxidizers and hazardous chemicals.
- Keep away from areas with excessive heat or open flames.

Personnel precautions:

Boards are long and heavy. Care must be taken when lifting. More than one person may be required to lift dependent on the length of the board.

Exposure Controls and Personal Protection Measures

Ventilation:

Use with adequate ventilation in processing operations. This product is designed for external use. In most circumstances natural outdoor ventilation should suffice without further special requirements.

Respiratory Protection:

Approved dust respirators must be used for dusty conditions or if inhalation of dusts is likely. There are no requirements under ordinary conditions of use and with adequate ventilation.

Eye Protection:

Safety glasses with side shields, or goggles, should be worn to protect against dust particles when operating tools.

Skin Protection:

No special equipment required under normal circumstances.

National Occupational Exposure Limits:

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC Australia).
 Biological limit values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC: 1005 (1994)]" the ingredients in this material do not have a Biological Limit

Personal Protection Equipment:

OVERALLS, SAFETY SHOES

Wear standard safety equipment - overalls and safety shoes. If risk of dust inhalation exists, use respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

Physical and Chemical Properties

Physical properties		Measured value	Result	Note
Appearance		Planks are supplied in various colours and finishes		
Linear thermal expansion coefficient		40.1 x 10 ⁻⁶ K ⁻¹	Requirement fulfilled	Temperature range of - 20 °C to 60 °C
Bulk density		1390 kg/m ³	For information	
Flame spread index		110	Pass	<=200
Smoke emissions		500	Pass	N/A
Termite resistance		Mass loss ~ 0.02 %	Pass	
Fungal decay resistance	G.trabeum	Mass loss ~ 0.77%	Pass	Requirement fulfilled
	P.Placenta	Mass loss ~ 0.91%	Pass	
	T. versicolor	Mass loss ~ 0.90%	Pass	
	I.lacteus	Mass loss ~ 0.91%	Pass	

Exposure Controls and Personal Protection Measures

Stability:

Stable

Conditions to Avoid:

Extreme heat and flame, build up of dusts and debris

Incompatibility (materials to avoid):

Strong oxidizers

Decomposition Products:

Carbon monoxide and carbon dioxide if ignited

Hazardous Polymerization:

Will not occur

Toxicological Information

Substances on REACH SVHC List Are:

- substances meeting the criteria for classification as carcinogenic, mutagenic or reprotoxic (CMR) category 1 or 2;
- persistent, bioaccumulative and toxic (PBT) substances; or
- very persistent and very bioaccumulative (vPvB) substances;
- substances for which there is evidence for similar concern, such as endocrine disruptors

Ecological Information

Environmental Fate and Effects:

No foreseeable environmental effects

Disposal Considerations

Environmental Fate and Effects:

Products are not listed as hazardous waste and can be disposed of in accordance with local, state, and national regulations.

Transport Information

Air Transport:

Not classified as dangerous goods by the International Air Transport Association (IATA).

Road and Rail Transport:

Not classified as dangerous goods by the Australian Dangerous Goods Code (ADG).

Marine Transport:

Not classified as dangerous goods by the International Maritime Dangerous Goods Code (IMDG).

Regulatory Information

Poisons schedule (Aust): not applicable

Other information

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