

Infinity®

Identification

Date of Publication:

04/08/2022

Product name: Eva-Last Infinity co-extrusion composite decking.

Product use: This product is primarily used for decking, facades, screens, cladding, and railing.

Website: www.eva-last.com

Manufacturers information:

Eva-Last Distributors
Room 1203, 12/F Tower 3 33 Canton Road,
Tsimshatsui Hong Kong, China

Emergency Contact: +27 10 593 9220

Product information: +27 10 593 9220

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 fibre	55 - 60%	N/A	OSHA OSHA ACGIH ACGIH	PEL-TWA 15 mg/m ³ PEL-TWA 5 mg/m ³ TLV-TWA 3 mg/m ³ TLV-STEL 10 mg/m ³	Total dust Respiratory dust fraction Respiratory dust fraction Inhabitable particles
HDPE - polyethylene	35 - 40%	9002-99-4	N/A	N/A	Thermoplastic

Additives

Cap					
Anti mould agent					
Coupling agent		N/A	N/A	Non-hazardous material	N/A
Anti UV agent					
Colour pigment					

NOTE

Bamboo is a species of the grass family which has distinct anatomical differences from that of timber. 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 fibres in Eva-Last Infinity boards are contained in a High-Density-Polyethylene (HDPE) Matrix, consisting mainly of polyethylene plastic and bamboo fibre. 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 equipment most appropriate for fire type. Douse affected and surrounding areas with water in normal circumstances.

Special protective equipment:

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

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 oxidisers 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 dust 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	$40.1 \times 10^{-6} \text{ K}^{-1}$	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
	P.Placenta	Mass loss ~ 0.91%	Pass
	T. versicolor	Mass loss ~ 0.90%	Pass
	I.lacteus	Mass loss ~ 0.91%	Pass

Requirement fulfilled

Exposure controls

Stability:

Stable

Conditions to avoid:

Extreme heat and flame, build up of dust and debris

Incompatibility (materials to avoid):

Strong oxidisers

Decomposition products:

Carbon monoxide and carbon dioxide if ignited

Hazardous polymerization:

Will not occur

Toxicological information

This material has been evaluated against the SVHC (Substance of Very High Concern) list. There are no hazardous chemicals present.

For a full list, please contact www.eva-last.com.

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

Disclaimer & copyright

Disclaimer

The provided information is offered in good faith as accurate but without guarantee. Eva-Last makes no warranties or representations of any kind (express or implied) about the accuracy, adequacy, currency, or completeness of the information, or that it is necessarily suitable for the intended use.

Compliance with this document does not guarantee immunity from breach of any statutory requirements, building codes or relevant standards. The final responsibility for the correct design and specification rests with the designer and, for its satisfactory execution, with the contractor. Appropriate warnings and safe handling procedures should be provided to handlers and users.

While most data have been compiled from research, case histories, experience and testing, small changes in the environment can produce marked differences in performance. The decision to use a material, and in what manner, is made at your own risk. The use of a material and method may therefore need to be modified to its intended end use and environment.

Eva-Last, its directors, officers or employees shall not be responsible for any direct, indirect, or special loss or damage arising from, or as a consequence of, use of, or reliance upon, any information contained in this document or other documents referenced herein. Eva-Last expressly disclaims any liability which is based on or arises out of, the information or any errors, omissions, or misstatements herein.

Drawing disclaimer

All dimensions and specifications are offered in good faith as accurate but without guarantee. The information captured herein may not contain complete details. Eva-Last makes no warranties or representations of any kind (express or implied) about the accuracy, adequacy, currency, or completeness of the information, or that it is necessarily suitable for the intended use.

Compliance with this document does not guarantee immunity from breach of any statutory requirements, building codes or relevant standards. The final responsibility for the correct design and specification rests with the designer and, for its satisfactory execution, with the contractor.

Utilisation disclaimer

Legislation may differ between jurisdictions. Before installing any Eva-Last product, ensure that the application is rational and complies with the local regulations and building codes. Wherever necessary, consult a suitably qualified professional. Be sure to comply with material manufacturer specifications. Where manufacturers and building codes differ, revert to the building code requirements. Check that your choice of product is suitable for its intended application. For further product specification and information visit www.eva-last.com.

Copyright

If reprinted or reproduced or utilised in any form Eva-last should be acknowledged as the source of the information.

Eva-last periodically updates the information contained in this installation guide and that of the Eva-last documents that have been referenced herein. Before using this installation guide, please refer to the Eva-last website (www.eva-last.com) for the most recent updates on information contained in this installation guide and that of any referenced Eva-last documents. Please refer to the applicable websites for the most recent updates on information contained herein pertaining to other sources.

Contact information

Eva-Last
Room 1203, 12/F Tower 333 Canton Road,
Tsimshatsui, Hong Kong, China

Emergency Contact: +27 10 593 9220

Product information: +27 10 593 9220

Email: info@eva-last.com

Website: www.eva-last.com