

Eva-tech  [®]

Identification

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Product name: Eva-last Eva-tech mono-extrusion composite decking.

Product use: This product is primarily used for deck boards, cladding board, façade boards, railing, beams and other timber replacement items.

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 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 / Wood 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	Trade secret	
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 Eva-tech 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.

Fire fighting 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, fire-fighters 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

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 measure

Personal protective measures and 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:

Refer to National OHS Codes.

Biological limit values:

Refer to National OHS codes.

Personal protection equipment:

Always wear appropriate Personal Protective Equipment (PPE) for the various activities involved in installing Eva-last Eva-tech materials. This includes, but is not limited to, general equipment such as safety glasses, helmets, gloves and boots, dust-masks when cutting or similar, and harness systems when working at heights or similar. The local occupational health and safety legislation will dictate.

Physical and chemical properties

Physical properties	Measured value	Result	Note	
Appearance	Boards are supplied in various colours and finishes.			
Linear thermal expansion coefficient	$45.9 \times 10^{-6} \text{ K}^{-1}$	Requirement fulfilled.	Temperature range of -20 °C to 60 °C.	
Colour Fade	Light colours	Requirement Fulfilled.	Results after 1300 Hours of weathering.	
	Dark colours			$\Delta E 3,9$
Bulk density	1390 kg/m ³	For information.		
Flame spread index	110*	Pass.	<= 200 required.	
Swelling boiling test	Thickness	1.4%	Pass.	<= 4,5%
	Width	0.2%	Pass.	<=0,8%
	Length	0.1%	Pass.	<=0,5%
Swelling cold water test	Thickness	0.8%	Pass.	<= 4,5%
	Width	0.1%	Pass.	<=0,8%
	Length	0.1%	Pass.	<=0,5%
Smoke emissions	500*	Pass.	N/A	
Termite resistance	G- Trabeum	Mass loss - 0,77 %	Pass.	Requirement fulfilled (Based on co-extruded material with the same core material)
	P- Placeneta	Mass loss - 0,91 %	Pass.	
	T- versicolor	Mass loss - 0,90 %	Pass.	
	I - Lacteus	Mass loss - 0,91 %	Pass.	

Exposure controls

Stability:

Stable

Conditions to avoid:

Extreme heat and flame, build up of dusts 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 disruptor

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).

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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.

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