

LIFESPAN MATERIAL SAFETY DATA SHEET

LIFESPAN™
COMPOSITE ARCHITECTURAL BEAMS

Identification

Date of Publication:

04/08/2022

Product name: Eva-last LifeSpan Tri-extruded composite profiles.

Product use: This product is primarily used for beams, pergolas, railing, and other timber replacement items.

Manufacturers information:

Eva-Last Distributors

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Tsimshatsui Hong Kong, China

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Product information: +27 10 593 9220

Hazard identification

This material is a non-hazardous.

Emergency overview

Keep away from 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.

Substance name	Approximate weight %	CAS number	Agency	Exposure limit	Comment
Cap					
Polyethylene (HDPE)	35 – 40 %	9002-99-4	N/A	N/A	Thermoplastic
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	
Adhesive – Co-polymer resin					Information withheld
Core – Aluminum alloy 6063-T5					
Aluminum (Al)	≤ 97.5 %	7429-90-5	OSHA OSHA ACGIH ACGIH	15 mg/m ³ 35 mg/m ³ 15 mg/m ³ 5 mg/m ³	Total dust (PNOR) Respirable fraction (PNOR) Metal dust Welding fume
Chromium (Cr)	≤ 0.1 %	7440 - 47 -3	OSHA ACGIH	1 mg/m ³ 0.5 mg/m ³	(Cr) (Cr)
Copper (Cu)	≤ 0.1 %	7440-50-8	OSHA OSHA ACGIH ACGIH	0.1 mg/m ³ 1 mg/m ³ 0.2 mg/m ³ 1 mg/m ³	Fume (as Cu) Dusts & mists (as Cu) Fume Dusts & mists (as Cu)
Iron (Fe)	≤ 0.35 %	7439-89-6	OSHA ACGIH	10 mg/m ³ 5 mg/m ³	Iron oxide fume Iron oxide dust & fume
Manganese (Mn)	0.45 – 0.9 %	7439-96-5	OSHA ACGIH	5 mg/m ³ 0.2 mg/m ³	Fume & Mn compounds Fume
Magnesium (Mg)	≤ 0.1 %	7439-95-4	OSHA ACGIH	15 mg/m ³ 10 mg/m ³	Fume Fume
Silicon (Si)	0.2 – 0.6 %	7440-21-3	OSHA OSHA ACGIH	15 mg/m ³ 5 mg/m ³ 10 mg/m ³	Total dust Respirable fraction
Titanium (Ti)	≤ 0.1	7440 - 32 -6	OSHA ACGIH	15 mg/m ³ 10 mg/m ³	(TiO ₂) (TiO ₂)
Zinc (Zn)	≤ 0,1	7440-66-6	OSHA OSHA OSHA ACGIH ACGIH ACGIH	5 mg/m ³ 15 mg/m ³ 5 mg/m ³ 5 mg/m ³ 10 mg/m ³ 10 mg/m ³	Fume Total dust Respirable fraction Fume STEL Dust
Other	≤ 0.2				
Additional additives – Anti-mould agents, Coupling agents, Anti-UV agents, Colour pigments, etc.					Information withheld

Note: The tri-extruded beam may contain small amounts of various elements in addition to those specified. These small quantities (less than 0.1%) may exist as intentional additions, or as "trace" or "residual" elements that generally originate in the raw materials used. These elements may include aluminium, antimony, arsenic, boron, cadmium, calcium, chromium, cobalt, columbium, copper, lead, molybdenum, nickel, silicon, tin, titanium, vanadium, and zirconium.

First aid measures

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. Wear appropriate PPE such as safety glasses and dust masks.

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. Rough edges of the products could result in minor cuts. Work gloves and long sleeve shirts should be worn to prevent skin damage. In case of molten material, douse with water and seek medical assistance.

Eye contact:

Particles of that become embedded in the eye may cause damage, flush thoroughly with water. Do not rub the eye, If irritation occurs, or particles remain call a physician. Safety glasses should be worn to avoid irritation.

Ingestion

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

Fire fighting measures

Extinguishing media to keep on hand

Foam, dry chemical, carbon-dioxide(CO₂), water-spray.

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, fire-fighters must use self-contained breathing apparatus and suitable protective gear.

Special protective equipment

For fires in enclosed areas, fire-fighters 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. Static discharge could be an ignition source for a combustible concentration of dust.

Hazardous decomposition product

Carbon monoxide, carbon dioxide

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.

Saw dust may become slippery under foot. Clear and sweep floor regularly.

Storage and handling

Notification 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. Boards should be stored horizontally,
- 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.
- Exposed edges may be sharp, handle with care.

Exposure controls and personal protection

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. Provide appropriate local ventilation at machinery and at places where dust can be generated.

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 is required under normal circumstances. Gloves and long sleeves should be worn to avoid any cuts and scrapes.

Personal protection equipment

Always wear appropriate Personal Protective Equipment (PPE) for the various activities involved in installing Eva-Last LifeSpan 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
Physical state	Solid		
Appearance	An extruded composite coated aluminum profiles, in various cross sections. Colours and finishes may vary. Odourless.		
Water solubility	Insoluble		

Stability and reactivity

Stability:

No decomposition if used and stored according to specifications. Stable under normal temperatures and pressures.

Conditions to avoid:

Store away from oxidizing agents, strong acids or bases. Air and moisture sensitive

Incompatibility (materials to avoid)

Strong oxidizers & acids. Halogenated hydrocarbons. Corrodes in contact with acids and other metals.

Decomposition products

Aluminium oxide. Combustible solid, finely divided dust is easily ignited; may cause explosions.

Hazardous polymerization

Can not occur.

Toxicology information

Skin irritation

None

Acute inhalation effect

Inhalation of the individual alloy components has been shown to cause various respiratory effects.

Acute oral effect

Ingestion limit - 10 mg/m³ - Total dust

Eye effect

Particle irritation may occur upon contact with dust. Embedded particles will cause damage to the eye if not removed. Repeated or prolonged exposure to fumes may cause irritation.

Other

None

Transportation information

Air transport

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

Road and rail transport

Not classified as dangerous goods. See local and national guidelines for weight and transportation restrictions. Boards may require long trailers for transportation dependant on the length and should not be allowed to overhang to the point of bowing during transportation. Boards must be properly secured at all times.

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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