VistaClad™

Cladding inspired by nature

VISTACLAD MATERIAL SAFETY DATA SHEET

CLIP STRIP

VERSION B 2.0 | 1908GLSA | 27/09/2022

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A PRODUCT BY EVA-LAST®

INSPIRED BY NATURE, DESIGNED FOR LIFE.

Introduction

Manufacturers details

Product name:	Eva-last Cladding clip strip
Product use:	This product is primarily used as a hanging bracket, clip or fastening strip for cladding boards
Manufacturing information:	Eva-Last Room 1203, 12/F Tower 333 Canton Road, Tsimshatsui, Hong Kong, China
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Hazard identification

This material is non-hazardous.

Emergency overview

When this product is in a solid metal form it poses no immediate health or fire hazard. During processes such as welding, burning, melting, sawing, grinding or similar activities, potentially hazardous particles and fumes may be generated. Avoid inhalation of metal dust or fumes. Work in well ventilated areas, and if necessary, wear respiratory protection. Protective eye wear should always be worn during handling and use. Iron or steel foreign bodies may become imbedded in the cornea of the eye and may leave rust stains if not removed expediently.

Composition

Substance name	Approx weight %	CAS Number	OSHA PEL	ACGIH TLV
ISQ230				
Iron (Fe)	> 90.0	7439-89-6	10 mg/m^3 - Iron oxide fume	5 mg/m^3 - Iron oxide dust & fume
Carbon (C)	≤ 0.15	7440-44-0	15 mg/m^3 - Total dust (PNOR) 35 mg/m^3 - Respirable fraction (PNOR)	10 mg/m^3 - Inhalable fraction (PNOS) 3 mg/m^3 - Respirable fraction (PNOS)
Manganese (Mn)	≤ 0.80	7439-96-5	5 mg/m^3 (C) - Fume & Mn compounds	0.2 mg/m^3 - Fume
Silicon (Si)	≤ 0.03	7440-21-3	15 mg/m^3 - Total dust 5 mg/m^3 – Respirable fraction	10 mg/m^3
Sulphur (S)	≤ 0.05	7704-34-9	15 mg/m^3 - Total dust (PNOR) 5 mg/m^3 - Respirable fraction (PNOR)	10 mg/m^3 - Inhalable fraction (PNOS) 3 mg/m^3 - Respirable fraction (PNOS)
Phosphorus (P)	≤ 0.05	8049-19-2	15 mg/m^3 - Total dust (PNOR) 5 mg/m^3 - Respirable fraction (PNOR)	10 mg/m^3 - Inhalable fraction (PNOS) 3 mg/m^3 - Respirable fraction (PNOS)
Copper (Cu)	0.000	7440-50-8	0.1 mg/m^3 - Fume (as Cu) 1 mg/m^3 – Dusts & mists (as Cu)	0.2 mg/m^3 – Fume 1 mg/m^3 - Dusts & mists (as Cu)

Substance name	Approx weight %	CAS Number	OSHA PEL	ACGIH TLV
Z275 Galvanised coating				
Zinc (Zn)	0.150 – 9.100	7440-66-6	5 mg/m^3 – Fume 15 mg/m^3 - Total dust 5 mg/m^3 - Respirable fraction	5 mg/m^3 – Fume 10 mg/m^3 - (STEL) 10 mg/m^3 – Dust
Aluminium (Al)	< 0.055	7429-90-5	15 mg/m^3 - Total dust (PNOR) 35 mg/m^3- Respirable fraction (PNOR)	15 mg/m^3 - Metal dust 5 mg/m^3 - Welding fume
Antimony (Sb)	< 0.011	7440-36-0	0.5 mg/m^3	0.5 mg/m^3
Iron (Fe)	< 0.800	7439-89-6	10 mg/m^3- Iron oxide fume	5 mg/m^3 - Iron oxide dust & fume
Lead (Pb)	< 0.004	7439-92-1	10 mg/m^3 - Iron oxide fume	5 mg/m^3 - Iron oxide dust & fume
Thermoset resin coating			VP POLYESTER Powder Coating for Class 1 Architectural Applications	

Note: The clip strip 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 aluminum, antimony, arsenic, boron, cadmium, calcium, chromium, cobalt, columbium, copper, lead, molybdenum, nickel, silicon, tin, titanium, vanadium, and zirconium. Galvanised surfaces may be chemically treated.

First aid measures

In the event of an injury to skin or eyes, seek immediate medical attention.

Eye contact

Following exposure to dust, flush thoroughly with water. If irritation persists, call a physician. Particles of iron that become imbedded in the eye may cause rust stains unless removed immediately. Dependent on the surface treatments on the clip. Welding or burning may produce fumes that may cause eye irritations.

Skin contact

Remove and launder contaminated clothing before reuse. Wash affected areas with soap (or mild detergent) and water. In case of burns, hold burn under cold water and seek medical attention. If a rash or irritation occurs, seek medical attention.

Inhalation

In cases of over-exposure to fumes, remove the person to fresh air . If respiratory issues such as excessive coughing, shortness of breath, wheezing or chest tightness occur, avoid further exposure, administer artificial oxygen and seek immediate medical assistance. In cases of "Metal fume fever", bed rest and symptomatic treatment should be administered.

Ingestion

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

Firefighting measures

Extinguishing media to keep on hand

Not applicable to solid materials, do not use water on molten metal.

Special fire-fighting procedures

Use extinguishing media most appropriate for fire type. Do not release runoff into water ways or sewers.

Special protective equipment

Firefighters must use self contained breathing apparatus and full protective clothing.

Unusual fire and explosion hazards

Not applicable. Non flammable, non combustible.

Hazardous decomposition product

Thermal oxidative decomposition of aluminium products can produce fumes containing oxides of zinc, iron, manganese and other elements at temperatures above melting point.

Accidental release measures

Not applicable to clip strip in its solid state. Suitable protective clothing and equipment, such as hand and eye protection, should be worn when working with fine particles. Avoid inhaling any dry dusts or fine particles. Vacuuming and wet sweeping should be used to remove dust and avoid using compressed air. Do not release into waterways or sewer systems and dispose of materials in accordance with jurisdictional requirements.

Handling and storage

Notification procedures

Hazard statements

- Dust or fumes are suspected of causing cancer via inhalation.
- Dust or fumes may cause allergic skin reaction.
- Prolonged and repeated exposure may cause damage to respiratory tracts.

Precautionary statement

- Use personal protective equipment as required.
- Avoid breathing in dust or fumes.

Personnel precautions

Follow local OSHA regulations. Wear suitable protective clothing at all times. Clip strips are likely to have sharp edges and could cause lacerations, gloves should be warn during handling. Flying particulate matter may become lodged in the eye and skin, wear protective glasses, and long sleeved shirts. Fumes may be produced by welding or heating, wear dust masks designed for fine particulate matter. Wash skin that has been exposed to oils with soap and water. Launder clothes and gloves after use, or when they have become saturated with oils or dust.

Exposure controls and personal protection measures

Ventilation

Operations with the potential for generating high concentrations of airborne particulates should be evaluated and controlled, as necessary. Practice good house keeping and avoid breathing metal fumes or dust.

Respiratory protection

Approved dust respirators must be used for dusty conditions or if inhalation of fumes are likely. Use respirators that will provide workers with adequate protection for given work conditions, airborne contamination and presence of sufficient oxygen levels.

Eye protection

Safety glasses with side shields, or goggles, should be worn to protect against particulate matter during operation.

Skin protection

Clip strips are likely to have sharp edges and could cause lacerations; gloves should be worn during handling. Dust may cause skin irritation; long sleeves should be worn during handling.

National occupational exposure limits

Refer to Material composition table for ingredient exposure limits Otherwise no value has been assigned to this specific composite material. May differ from region to region.

Personal protection equipment

Always wear appropriate, code compliant Personal Protective Equipment (PPE) for the various activities involved in installing Eva-last Aluminium trim. This includes, but is not limited to, general equipment such as safety glasses, helmets, gloves and boots, dust-masks, long sleeve shirts 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		A punched steel strip, with multiple holes (holes may vary) and hanging points protruding from the strip. Colours and finishes may vary. Odourless.		
Yield strength (MPa)		<324	N/A	
Tensile strength (MPa)		<389	N/A	
Density g/cm^3		7.9	N/A	
Water solubility		Insoluble	N/A	
Freezing or melting point C°	Base metal	1510	N/A	
	Galvanised coating	449	N/A	

Stability and reactivity

Stability

Stable under normal conditioning and handling.

Conditions to avoid

Storage with strong acids or calcium hypochlorite.

Incompatibility (materials to avoid)

Will react to strong acids to from hydrogen. Iron oxide dusts in contact with calcium hypochlorite evolve oxygen and may cause explosion

Decomposition products

Thermal oxidative decomposition of galvanised steel products can produce fumes containing oxidisers of zinc, iron and manganese as well as other elements.

Hazardous polymerization

Can not occur.

Toxicology information

The possible presence of chemical surface treatments and coatings should be considered when evaluating potential employee health hazards and exposures during handling and welding or other fume generating activities.

Acute inhalation effect

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

Acute oral effect

15 mg/m^3 - Total dust

Eye effect

Eye contact with the individual components may cause particulate irritation. Imbedded iron particles may cause rust rings to form and corneal softening. Repeated or prolonged eye contact with zinc oxide fume may produce conjunctivitis (pink eye).

Other

Other than the provided composition of the base metal and galvanised coating. The Thermoset resin used as an aesthetic and corrosive resistant coating may contain small amounts, of soluble forms of Aluminium, Antimony, Arsenic, Barium, Corn, Cadmium, Chromium 3 and 6, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, soluble and organic tin, and Zinc and has been determined to be safe in accordance with EN 71-3 2013+A32018 Migration of certain elements.

Ecological information

Environmental effects

No data is available for galvanized steel specifically. However, individual components have been found to be toxic to the environment. Metal dusts may migrate into soil and ground water and be ingested by wildlife. Lead can be bioaccumulated in plants and water organisms, especially shellfish.

Environmental degradation

No data is available.

Soil absorption/mobility:

No data available for galvanized steel specifically. However, individual components have been found to be absorbed by plants from soil.

Disposal considerations:

Steel scraps should be recycled whenever possible. Product dusts and fumes from processing operations should also be recycled, or classified by a competent environmental professional and disposed of in accordance with applicable regulations. Observe safe handling precautions.

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. 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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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.

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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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