CHAIN™ COLLATED CLIP MATERIAL SAFETY DATA SHEET

chain™
Collated decking clip

A PRODUCT BY HULK FASTENERS.™

Identification

Date of Publication:
05/04/2022

Product name: Eva-Last® Chain™ collated decking clip

Product use: This product is primarily used for composite deck boards, or similar products of other materials.

Manufacturers information:

Eva-last® HK Ltd.
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

This product consists of multiple parts, supplied fully assembled. The components comprise different materials, as outlined in the following table.

The primary component consists of a metal insert injection-moulded fastener collation. Individual clips are joint together by polymer tabs creating a chain of decking clips which can break away from one another. Each clip is pre-loaded with a screw (several options of screws are available for different applications) to form a single component that may be used by hand, but it is recommended for use with a custom made Chain™ hand tool.

Additional accessories may be found packaged with the system, including items such as fastening bits, that are not listed herein.
Do not separate these documents. Refer to the user guide for assembly details. All information below is based upon what is considered the normal use of the product.

HULK Fasteners™ collated deck clip and screw system parts list

MSDS No.	No.	Item identifier	Note	Page number
20201028HFCC01	1a	Moulded plastic casing	Polypropylene	1 to 4
	1b	Steel insert	Stainless steel 316L	
20201028HFST31601	2a	Timber clip screw	Stainless steel 316	5 to 8
20201028HFSMC102201	2b	Metal clip screw	Carbon steel C1022	9 to 12

Hazard identification

This material is a non-hazardous.

Precautionary statements

Wear appropriate personal protective equipment when using this product, as per the user guidelines.

Emergency overview

Immediate health, physical and environmental hazards

When the product is used in line with product directions and guidelines under reasonable conditions, should not pose a health hazard. However, may pose a choking hazard in loose form.

Eye protection:

No foreseeable health effects

Skin protection:

No foreseeable health effects

Inhalation

No foreseeable health effects

Ingestion

No foreseeable health effects

Composition and information on ingredients

Chemical composition (Part 1a – moulded plastic casing)

Substance	Approximate weight (%)	CAS No.	Exposure limit (mg/m³)	Agency	Note
Polypropylene	90 to 100%	9010-07-0	10	ACGHI – TVL TWA	
Talc	> 0%	14807-96-6	2 2	ACGHI – TWA OSHA PEL (TWA)	Respirable fraction
Glass fibres	> 0%	65997-17-3			
Additives	> 0%	None			Withheld

The non-hazardous components and exact percentages (concentrations) of the composition have been withheld as a trade secret. This product consists primarily of polymers which are not expected to be hazardous. The ingredients in this product are bound within the polymer matrix and are not expected to be hazardous.

Chemical composition (Part 1b – Steel insert 316, 316L and 315 LVM)

Substance	Approximate weight (%)	CAS No.	Exposure limit (mg/m³)	Agency	Note
Iron (Fe)	60 to 72%	7439-89-6	10 5	OSHA PEL ACGIH (TLV)	Oxide form is regulated
Chromium (Cr)	16 to 19%	7440-47-3	0.5 0.5	OSHA PEL ACGIH (TLV)	
Nickel (Ni)	10 to 15%	7440-02-2	1 1	OSHA PEL ACGIH (TLV)	
Molybdenum (Mo)	2 to 3%	7429-98-7	5 10	OSHA PEL ACGIH (TLV)	
Manganese (Mn)	0 to 2%	7439-96-5	5 0.2	OSHA PEL ACGIH (TLV)	
Copper (Cu)	0 to 0.5%	7440-50-8	1 1	OSHA PEL ACGIH (TLV)	0.1 mg/m3 (FUME) 0.1 mg/m3 (FUME)
Cobalt (Co)	0 to 1%	7440-48-4	0.1 0.02	OSHA PEL ACGIH (TLV)	

Alternative Material Chemical composition (Part 1b – Steel insert 304)

Substance	Approximate weight (%)	CAS No.	Exposure limit (mg/m³)	Agency	Note
Iron (Fe)	> 45 %	7439-89-6	10 5	OSHA PEL ACGIH (TLV)	Oxide form is regulated
Chromium (Cr)	16 to 26 %	7440-47-3	0.5 0.5	OSHA PEL ACGIH (TLV)	
Nickel (Ni)	< 22 %	7440-02-2	1 1	OSHA PEL ACGIH (TLV)	
Molybdenum (Mo)	< 3 %	7429-98-7	5 10	OSHA PEL ACGIH (TLV)	
Manganese (Mn)	0 to 2%	7439-96-5	5 0.2	OSHA PEL ACGIH (TLV)	
Copper (Cu)	< 0.75%	7440-50-8	1 1	OSHA PEL ACGIH (TLV)	0.1 mg/m3 (FUME) 0.1 mg/m3 (FUME)
Carbon (C)	< 0.25%	7440-44-0			
Cobalt (Co)	0 to 1%	7440-48-4	0.1 0.02	OSHA PEL ACGIH (TLV)	
Niobium (Nb)	< 1 %	7440-03-1	N/A		
Phosphorus (P)	< 0.04 %	7723-14-0	0.1 0.5	OSHA PEL ACGIH (TLV)	
Sulfur (S)	<0.03 %	7704-34-9	5 2	OSHA PEL ACGIH (TLV)	
Silicon (Si)	< 1.5 %	7440-21-3	50 0.1	OSHA PEL ACGIH (TLV)	
Aluminium (Al)	< 3.0 %	7429-90-5	15 2	OSHA PEL ACGIH (TLV)	
Titanium (Ti)	< 0.8%	7440-32-6	2.4 15	OSHA PEL ACGIH (TLV)	

Stainless Steel alloys are not considered hazardous in solid rod/bar, wire, tubing, strip, and sheet form. However, if subsequent processing involves grinding, melting, welding, cutting, or any process that causes a release of dust or fume, hazardous levels of dust or fumes of the constituents of these alloys can be generated. Under normal use, this is not expected to be a problem.

The collated clip 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. Metal surfaces may be chemically treated.

First aid measures

Consumption:
There is no foreseeable need for first aid. Small loose parts may be a choking hazard.

Accidental release measures

Personal precautions, protective equipment and emergency procedures:
N/A

Environmental precautions:
N/A

Requirements for containment and cleaning up:
N/A

Storage and handling

Precautions for safe handling:

Dependent on use, store as per product guidelines. Under normal use and conditions this product should release no hazardous chemicals and is generally recognised as safe.

Conditions for safe storage including any incompatibilities:

Keep away from oxidising agents and similar.

Note:

Storage outside of provided packaging, resulting in exposure to UV light, or similar, may result in differential weathering of the product.

Exposure controls and personal protection

Under normal use and conditions, this product should release no hazardous chemicals and is generally recognised as safe.

Physical and chemical properties

Part	Part 1 a (Moulded plastic casing) of 2.
Specific physical form	Moulded polymer over a steel insert.
Colour/Grade	Black or dark grey
General physical form	A collated polymer strip consisting of several connected moulded parts, over a steel insert.
Odour	No odour
Flammability	N/A
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Solubility in water and non-water	N/A
Viscosity	N/A

Part	Part 1b (Steel insert) of 2.
Specific physical form	Steel insert (which may not be visible), encased in polymer
Colour/Grade	SS 316.
General physical form	Steel insert encased in a dark or black polymer
Odour	No odour
Flammability	N/A
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Solubility in water and non-water	N/A
Viscosity	N/A

Stability and reactivity

Stability:

Stable. Considered non-reactive under normal circumstances.

Materials and conditions to avoid:

Strong oxidising agents.

Hazardous polymerisation or decomposition:

Under normal conditions of storage and use, hazardous decomposition products should not occur.

Toxicology information

Inhalation:
There is no foreseeable health affect.

Skin contact:
There is no foreseeable health affect.

Eye contact:
There is no foreseeable health affect.

Consumption:
There is no foreseeable health affect.

Additional note:
When the product is used in line with product directions and guidelines under reasonable conditions, should not pose a health hazard.

Ecological impact

This product, its use, release and disposal are expected to have a low environmental impact and risk.

Disposal consideration

Dispose of products and packaging in accordance with local/regional/national/international regulations.

Transportation information

No specific request.

Regulatory information

Part 1a (Moulded plastic casing) of 2.
Undetermined.

Part 1b (Steel insert) of 2.
Undetermined.

Timber Clip Screw

Identification - Timber Clip Screw

Date of Publication:
28/03/2022

Product name: HULK Fasteners™, Timber clip screw, Marine grade Stainless steel 316.

Product use: Used as a screw component of the Collated Clip hidden fastener between deck boards for timber substructure applications.

Manufacturers information:

Eva-last® HK Ltd.

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.

Precautionary statements

Wear appropriate personal protective equipment when using this product, as per the user guidelines.

Emergency overview

Immediate health, physical and environmental hazards

When the product is used in line with product directions and guidelines under reasonable conditions, should not pose a health hazard. However, may pose a choking hazard in loose form.

Eye protection:

No foreseeable health effects

Skin protection:

No foreseeable health effects

Inhalation

No foreseeable health effects

Ingestion

No foreseeable health effects

Composition and information on ingredients

Chemical composition (Part 2a – Steel screw 316, 316L and 315 LVM)

Substance	Approximate weight (%)	CAS No.	Exposure limit (mg/m³)	Agency	Note
Iron * (Fe)	60 to 72 %	7439-89-6	10 5	OSHA PEL ACGIH (TLV)	Oxide form is regulated
Chromium (Cr)	16 to 19 %	7440-47-3	0.5 0.5	OSHA PEL ACGIH (TLV)	
Nickel (Ni)	10 to 15 %	7440-02-2	1 1	OSHA PEL ACGIH (TLV)	
Molybdenum (Mo)	2 to 3 %	7429-98-7	5 10	OSHA PEL ACGIH (TLV)	
Manganese (Mn)	0 to 2 %	7439-96-5	5 0.2	OSHA PEL ACGIH (TLV)	
Copper (Cu)	0 to 0.5 %	7440-50-8	1 1	OSHA PEL ACGIH (TLV)	0.1 mg/m3 (FUME) 0.1 mg/m3 (FUME)
Cobalt (Co)	0 to 1 %	7440-48-4	0.1 0.02	OSHA PEL ACGIH (TLV)	
Coating					
Epoxy					Undetermined.

Stainless Steel alloys are not considered hazardous in solid rod/bar, wire, tubing, strip, and sheet form. However, if subsequent processing involves grinding, melting, welding, cutting, or any process that causes the release of dust or fumes, hazardous levels of dust or fumes of the constituents of these alloys can be generated. Under normal use, this is not expected to be a problem.

The clip screw 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. Metal surfaces may be chemically treated.

First aid measures

Consumption:
There is no foreseeable need for first aid. Small loose parts may be a choking hazard.

Accidental release measures

Personal precautions, protective equipment and emergency procedures:
N/A

Environmental precautions:
N/A

Requirements for containment and cleaning up:
N/A

Storage and handling

Precautions for safe handling:
Dependent on use, store as per product guidelines. Under normal use and conditions this product should release no hazardous chemicals and is generally recognised as safe.

Conditions for safe storage including any incompatibilities:
Keep away from oxidising agents and similar.

Physical and chemical properties

Part	Part 2a (Timber clip screw) of 2.
Specific physical form	Timber screw M4.2 x 42 mm with Pan head and type 17 tip.
Colour/Grade	Black or dark grey or dark brown. (Epoxy coated)
General physical form	A metal screw painted in a dark colour.
Odour	No odour
Flammability	N/A
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Solubility in water and non-water	N/A
Viscosity	N/A

Stability and reactivity

Stability:
Stable. Considered non-reactive under normal circumstances.

Materials and conditions to avoid:
Strong oxidising agents.

Hazardous polymerisation or decomposition:
Under normal conditions of storage and use, hazardous decomposition products should not occur.

Toxicology information

Generally considered nontoxic

Inhalation:
There is no foreseeable health affect.

Skin contact:
There is no foreseeable health affect.

Eye contact:
There is no foreseeable health affect.

Consumption:
There is no foreseeable health affect.

Additional note:
Should not pose a health hazard when the product is used in line with product directions and guidelines under reasonable conditions.

Ecological impact

This product, its use, release and disposal are expected to have a low environmental impact and risk.

Disposal consideration

Dispose of products and packaging in accordance with local/regional/national/international regulations.

Transportation information

No specific request.

Regulatory information

Part 2 a (Timber clip screw) of 2.
Undetermined.

Metal Clip Screw

Identification - Metal Clip Screw

Date of Publication:
28/03/2022

Product name: HULK Fasteners™, Metal clip screw – Carbon steel C1022, With C4 rated coating.
Product use: Used as a screw component of the Collated Clip hidden fastener between deck boards for metal substrtucture applications.

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.

Precautionary statements

Wear appropriate personal protective equipment when using this product, as per the user guidelines.

Emergency overview

Immediate health, physical and environmental hazards

When the product is used in line with product directions and guidelines under reasonable conditions, should not pose a health hazard.

Eye protection:

No foreseeable health effects

Skin protection:

No foreseeable health effects

Inhalation

No foreseeable health effects

Ingestion

No foreseeable health effects

Composition and information on ingredients

Chemical composition (Part 2a – Steel screw 316, 316L and 315 LVM)

Substance	Approximate weight (%)	CAS No.	Exposure limit (mg/m³)	Agency	Note
Iron * (Fe)	98.68 to 99.13 %	7439-89-6	10 5	OSHA PEL ACGIH (TLV)	Oxide form is regulated
Manganese (Mn)	0.70 to 1.0 %	7439-96-5	5 0.2	OSHA PEL ACGIH (TLV)	
Carbon (C)	0.17 to 0.23 %	7440-44-0			Not established
Phosphorous (P)	≤ 0.040 %	7723-14-0	0.5 0.2	OSHA PEL ACGIH (TLV)	
Sulphur (S)	≤ 0.050 %	7704-34-9			Not established
Coating - C4 rated					
Solvesso 150	30 to 50 %	64742-94-5			Not listed
Xylene	≤ 2.0 %	1330-20-7			Not listed
BCS	≤ 2.0 %	111-76-2	240 121	OSHA PEL ACGIH (TLV)	

Steel alloys are not considered hazardous in solid rod/bar, wire, tubing, strip, and sheet form. However, if subsequent processing involves grinding, melting, welding, cutting, or any process that causes the release of dust or fume, hazardous levels of dust or fumes of the constituents of these alloys can be generated. Under normal use, this is not expected to be a problem.

The clip screw 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.
Metal surfaces may be chemically treated.

First aid measures

Consumption:
There is no foreseeable need for first aid. Small loose parts may be a choking hazard.

Accidental release measures

Personal precautions, protective equipment and emergency procedures:
N/A

Environmental precautions:
N/A

Requirements for containment and cleaning up:
N/A

Storage and handling

Precautions for safe handling:
Dependent on use, store as per product guidelines. Under normal use and conditions this product should release no hazardous chemicals and is generally recognised as safe.

Conditions for safe storage including any incompatibilities:
Keep away from oxidising agents and similar.

Note:
Storage outside of provided packaging, resulting in exposure to UV light, or similar, may result in differential weathering of the product.

Physical and chemical properties

Part	Part 2b (Metal clip screw) of 2.
Specific physical form	Metal screw M4.2 x 31 mm with Pan head and predrilling tip.
Colour/Grade	Black or dark grey or dark brown. (Zinc epoxy coated C4 rated.)
General physical form	A metal screw painted in a dark colour.
Odour	No odour
Flammability	N/A
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Solubility in water and non-water	N/A
Viscosity	N/A

Stability and reactivity

Stability:

Stable. Considered non-reactive under normal circumstances.

Materials and conditions to avoid:

Strong oxidising agents or similar.

Hazardous polymerisation or decomposition:

Under normal conditions of storage and use, hazardous decomposition products should not occur.

Toxicology information

Generally considered nontoxic

Inhalation:

There is no foreseeable health affect.

Skin contact:

There is no foreseeable health affect.

Eye contact:

There is no foreseeable health affect.

Consumption:

There is no foreseeable health affect.

Additional note:

Should not pose a health hazard when the product is used in line with product directions and guidelines under reasonable conditions.

Ecological impact

This product, its use, release and disposal are expected to have a low environmental impact and risk.

Disposal consideration

Dispose of products and packaging in accordance with local/regional/national/international regulations.

Transportation information

No specific request.

Regulatory information

Part 2 b (Metal clip screw) of 2.

Undetermined.

Other information

Document disclaimer

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