Evolution Fasteners (U.K.) Ltd Technical Department

Unit 2 Clyde Gateway Trade Park, Dalmarnock Road, Rutherglen, Glasgow, South Lanarkshire, G73 1AE, United Kingdom.

Material Data Sheet:

Electroplated Zinc (Bright or Yellow), Black Phosphate and Organic Coated Screws 3rd Revision (12th February 2018)

Material Data Sheet:

1.0 - Identification of the substance/ preparation and of the company/ undertaking

1.1 - Substance/ Preparation

Range Code REACh ROHS RANN MN MN MN MH EAB EADIS EADIST WHL WHP WHP WHP WHA CB EVC EVC CDWCP CDWCP CDWCP CDWCP CDWFD CDW	Identification of the Substance/ Preparation							
EVDBZ AMN MN WH EAB EADIS EADIST WHL WHP WHAX CB EGL EVC CDWCP CDWCP CDWFDZ CDWFDZ CDWFDZ CDWFDZ CDWFDZ CDWFDZ CDWFCP CTTS CCWZ CFSCYS P-SFC SFC SFC STCS WST DWRT DWCR EVDBZ AMN NAN NAII-in anchor Nail-in anchor Wire hangar anchor In/a Zinc Anchor bolt Drop-in anchor Wire hangar anchor In/a Anchor bolt Drop-in anchor setting tool Cement board screw		Compliance Requirements (n/a if not required)			Materials		Description	
AMN MN WH EAB EADI EADIST WHL WHP WHR WHR WHR WHR WHR WHR WHR CB EGL EV EVAB CDWCP CDWCP CDWFD CDWFD CDWFD CDWFD CDWFD CDWFC CTTS CWZ CFSCYS P-SFC SFC STCS WS WST DWRT DWCR Steel AMA N/A Nail-in anchor Wire hangar anchor Anchor bolt Drop-in anchor setting tool Cement board screw Cement board scre	_	REACh	RoHS		EUTR	Parent	Coating	Description
MN WH EAB EADI EADI EADIST WHL WHP WHP WHX CB EGL EV EVAB CDWCP CDWFDZ CDWFP CDWFP CDWFP CDWFP CDWFC CDWFC CTTS CCWZ CTSCYS P-SFC SFC SFC STCS WS WST DWRT DN/a N/a N/a N/a N/a N/a N/a N/	EVDBZ						Zinc	Ceiling anchor
WH EAB EADI EATB EATB EADIST WHL WHP WHP WHX CB EGL EV CDWCP CDWFD CDWFD CDWFD CDWFD CDWFD CDWFD CDWFC CDWFC CDWFC CDWFC CTTS CWZ CFSCYS P-SFC STCS WS WS WS DWRT DN/a N/a N/a N/a N/a N/a N/a N/a	AMN					Zamak	n/a	
EAB EADI EADI EATB EADIST WHL WHP WHR WHX CB EGL EV EVAB VFC CDWFD CDWFD CDWFD CDWFD CDWFD CDWFD CDWFD CDWFC CDWFC CDWFC CTTS CDWFC CTTS CWE CFSCYS P-SFC SFC STCS WS WS DWRT DWCR TARCHORO BI Drop-in anchor Through bolt Drop in anchor setting tool Cement board screw Vertical flange clip Phosphate Drywall Screw Zinc Drywall Screw Phosphate Drywall Screw Flooring Screw Flooring Screw Flooring Screw Flooring Screw Wood screw Wood screw Wood screw Wood screw Wood screw Self countersinking screw	MN							Nail-in anchor
EAB EADIST EATB EADIST WHL WHP WHX CB EGL EV EVAB VFC CDWCP CDWFDZ CDWFDZ CDWFP CDWFPC CDWFPC CTTS CDWFC CTTS CTS CYZ CFSCYS P-SFC STCS WS WS WS DWRT DWCR EADIST Anchor bott Drop-in anchor setting tool Cement board screw Cellip Cement board screw Cellip Cemont board screw Cellip Acoustic bracket Vertical flange lip Phosphate Dry	WH						Zinc	Wire hangar anchor
EATB EADIST WHL WHP WHX CB EGL EV EVAB VFC CDWCP CDWFDZ CDWFDZ CDWFP CDWFZ CDWFCP CTTS CWZ CFSCYS P-SFC STCS WS WST DWRT DWCR EATB In/a Yes Yes In/a Yes In/a Yes In/a In/	EAB							Anchor bolt
EADIST WHL WHP WHX CB EGL EV CDWCP CDWFDZ CDWFDZ CDWFP CDWFZ CDWFCP CTTS CWZ CFSCYS P-SFC STCS WS WST DWRT DWCR N/A Yes Yes A A A A A A A A A A A A A	EADI							Drop-in anchor
WHL WHP WHX CB EGL EV EVAB VFC CDWFD CDWFDZ CDWFD CDWFD CDWFD CDWFD CDWFC CDWFC CDWFC CTTS CWZ CFSCYS P-SFC STCS STCS STCS WS WST DWRT DWCR WHX Yes Yes Yes Yes Yes Yes Yes An/a Tyes Yes Organic Cement board screw Pressed steel bracket Zinc Sinc Drywall Screw Phosphate Zinc Drywall Screw Phosphate Drywall Screw Phosphate Drywall Screw Flooring Screw Flooring Screw Flooring Screw Flooring Screw Flooring Screw Wood screw Wood screw Wood screw Wood screw Self countersinking screw	EATB							Through bolt
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CDWFZ CDWFCP CDWFCP CTTS CWZ CSTCS P-SFC SFC STCS WS WST DWRT DWCR Phosphate Zinc Drywall Screw Phosphate Drywall Screw Flooring Screw Flooring Screw Flooring Screw Concrete Screw Wood screw Wood screw Reverse threaded screw Self countersinking screw	CDWFDZ			'		Zinc	Drywall Screw	
CDWFCP CTTS CWZ CFSCYS P-SFC SFC STCS WS WST DWRT DWCR Phosphate Drywall Screw Flooring Screw Flooring Screw Flooring Screw Concrete Screw Wood screw Reverse threaded screw Self countersinking screw	CDWFP			Yes		Steel	Phosphate	Drywall Screw
CTTS CWZ CFSCYS P-SFC SFC STCS WS WST DWRT DWCR Tinc Drywall Screw Flooring Screw Flooring Screw Flooring Screw Concrete Screw Wood screw Reverse threaded screw Self countersinking screw	CDWFZ						Zinc	Drywall Screw
CTTS CWZ CFSCYS P-SFC SFC STCS WS WST DWRT DWCR Drywall Screw Flooring Screw Flooring Screw Flooring Screw Concrete Screw Wood screw Wood screw Reverse threaded screw Self countersinking screw	CDWFCP						Phosphate	Drywall Screw
CFSCYS P-SFC SFC STCS MS WS WST DWRT DWCR Flooring Screw Flooring Screw Flooring Screw Concrete Screw Wood screw Wood screw Reverse threaded screw Self countersinking screw	CTTS						-	Drywall Screw
P-SFC SFC STCS N/a Zinc Zinc Flooring Screw Flooring Screw Concrete Screw Wood screw Wood screw Reverse threaded screw Self countersinking screw	CWZ							Drywall Screw
SFC STCS n/a Zinc Elooring Screw Concrete Screw Wood screw Wood screw Reverse threaded screw Self countersinking screw	CFSCYS							Flooring Screw
STCS WS WST DWRT DWCR N/a Zinc Concrete Screw Wood screw Wood screw Reverse threaded screw Self countersinking screw	P-SFC						Zinc	Flooring Screw
WS WST DWRT DWCR Wood screw Reverse threaded screw Self countersinking screw	SFC							Flooring Screw
WST DWRT DWCR Wood screw Wood screw Reverse threaded screw Self countersinking screw	STCS			n/a				Concrete Screw
DWRT Yes Reverse threaded screw Self countersinking screw	WS							Wood screw
DWCR Yes Screw Self countersinking screw	WST							Wood screw
DWCR Self countersinking screw	DWRT			.,				
Screw				Yes				
	DWCR							_
	DWSCP						Phosphate	Drywall Screw

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DWSC						Zinc	Drywall Screw
DWSP						Phosphate	Drywall Screw
DWSZ					Zinc	Drywall Screw	
F						Phosphate	Drywall Screw
DWSDZ			Yes		Carbon Steel		Drywall Screw
PHSDZ						Zinc -	Drywall Screw
WHDZ							Drywall Screw
WHSDZ				_			Drywall Screw
SSDW			- 1-		Stainless	n/a	Drywall Screw
BMDW			n/a		Steel	Zinc	Drywall Screw
ETKR			Yes		Carbon	Organic	Insulation Screw
TSBW							TEK Screw
TSHW			n/a n/a r				TEK Screw
TSBWHT							TEK Screw
TSFHR		n/a n/a					TEK Screw
TSNS	n/a			n/a	Steel	Organic -	TEK Screw
TSHV							TEK Screw
TSLP							TEK Screw
TSPH			Yes				TEK Screw
TSTF						TEK Screw	
ВМНН				Stainless Steel		Zinc	TEK Screw
BMBW					Stainless Steel		TEK Screw
BMTSBWHT			n/a				TEK Screw
BMWD							TEK Screw
SSWD						TEK Screw	
MSCSK				Carbon	Organic	Masonry Screw	
MSHH				Steel		Masonry Screw	

1.2 - Company/ Supplier

Company/ Supplier				
Headquarters and Administration/ Accounts	Sales, Marketing and Technical			
Evolution Fasteners (U.K.) Ltd Elstree House, Elstree Way, Borehamwood, Hertfordshire, WD6 1SD +44 (0) 208 905 2759	Evolution Fasteners (U.K.) Ltd Unit 2 Clyde Gateway Trade Park, Dalmarnock Road, Rutherglen, Glasgow, South Lanarkshire, G73 1AE. +44 (0) 141 647 7100			
Contact Person:	ryan@evolutionfasteners.co.uk			

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2.0 - Hazards Identification

There is a risk of cuts and abraisions from sharp edges and protrusions. The use of screws may lead to dust or swarf generation, and adequate inhalation protection should be provided. Refer to your plasterboard manufacturers' Safety Data Sheet for appropriate guidance.

3.0 - Composition/Information on Ingredients

Composition/ Information on Ingredients					
Coating Type	Ingredients	Note(s)			
Zinc	Zinc with or without di-				
ZITIC	chromate passivation				
Phosphate	Phosphates of Iron, Zinc and	Some parts may be supplied			
Phosphate	Manganese	with a nylon collation strip			
Organic	Aluminium and Zinc flake				
Organic	bound in baked epoxy resin				

4.0 - First Aid Measures

Inhalation: Remove person from work area to fresh air.

Skin contact: No adverse effects.

Eye contact: Irrigate with plenty of water and obtain medical advice.

Ingestion: Wash out mouth and give the patient plenty of water.

Please note that should any symptoms persist – obtain medical assistance.

5.0 - Fire Fighting Measures

Screws are non-flammable.

6.0 - Accidental Release Measures

Control and collect any waste screws, sweep up and shovel into bags.

7.0 - Handling and Storage

When using hand tools – eye protection should be worn.

Screw points and threads may be sharp – glove should be worn when handling the material to avoid the risk of lacerations.

Head protection should be worn when overhead hazards exist.

Supplied in boxes/ cartons, which should be stacked in a safe and stable manner to avoid spillage. Open boxes by the lid to minimise potential waste.

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Evolution Fasteners (U.K.) Ltd: Material Data Sheet (Electroplated Zinc (Bright or Yellow), Black Phosphate and Organic Coated Screws) Revision 03 Date: 12th February 2018

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Note that if handling manually, consider risks as required by Manual Handling Operations Regulations 1992.

8.0 – Exposure Controls/ Personal Protection

Exposure Controls/ Personal Protection (Occupational Exposure Limits)					
Substance	Total inhalable	Total respirable			
Iron Oxide	5mg/m³	10mg/m³			
Zinc Oxide	5mg/m³	10mg/m³			
Chromium Information	OEL	MEL			
Cr II and Cr III (as Cr)	0.5 mg/m³				
Cr VI (as Cr)		0.05 mg/m³			

Personal Protection:

Respiratory Ventilate the area of storage or work if fume or dust is produced. Wear approved

respiratory equipment when welding, flame cutting or grinding.

Skin: Wear protective gloves, overalls and footwear, when handling screws.

Eye: Wear safety goggles to BS EN 166 2A 5 to protect eyes when using screws.

9.0 - Physical and Chemical Properties

Non-combustible.

10.0 - Stability and Reactivity

Stable under normal conditions but when subjected to elevated temperatures fumes are produced.

11.0 - <u>Toxicological Information</u>

Mechanical working such as dry grinding and machining, will product dust of the same composition as the coating and base metal.

If subjected to elevated temperatures e.g. during welding or flame cutting, fumes are produced containing oxides of zinc and iron and also breakdown products of any protective coating if present.

The potential effects on health include metal fume fever, a short lasting, self limiting condition with symptoms similar to influenza.

The principal mode of entry into the body is by inhalation and if airborne concentrations are excessive over long periods of time they may have a long term effect on the health of the worker, primarily affecting the lungs.

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12.0 - Ecological Information

No known harmful effects.

13.0 - Disposal Considerations

Recycle or can be disposed of at an authorised landfill site in accordance with local or national controls.

14.0 – Transport Information

Not classified as hazardous for transport.

15.0 - Regulatory Information

None.

16.0 - Other Information

This product should be used as directed by Evolution. For further information consult the technical department.

An on-site risk assessment should be carried out before use.

This safety data sheet:

- 1. Supersedes all previous issues, and users are cautioned to ensure it is current. Destroy all previous data sheets, and if in any doubt, contact Evolution,
- 2. Does not replace the users own workplace risk assessment,
- 3. Was compiled using the current safety information supplied by the distributors of the component materials,
- 4. Is based on the present state of our knowledge and is intended to describe out products from the point of view of health and safety requirement. It should not be construed as guaranteeing specific properties.