# Cold-Formed Steel Framing-A1003 & A653 (Galvanized) by Marino\WARE

**Health Product** Declaration v2.3 created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 976502784

CLASSIFICATION: 05 40 00 Cold-Formed Metal Framing

PRODUCT DESCRIPTION: This HPD is for Marino\WARE® cold-formed steel framing products. This includes structural framing, shaftwall, area separation wall, slotted track, lath and steel accessories. It also includes ViperStud®, StudRite®, JoistRite®, ClipSource® Connectors, QuickFrame®, FAS® Track and SoundGuard®. In order to obtain cold-formed steel framing products that comply with this HPD, you must request domestic prime mill certified steel at the time you place your order. Requests made after ordering may be denied. This HPD applies to classifications under 09 22 16 & 05 40 00.

# Section 1: Summary

# **Nested Method / Product Threshold**

# **CONTENT INVENTORY**

**Inventory Reporting Format** 

Nested Materials Method

C Basic Method

**Threshold Disclosed Per** 

Material

Product

**Threshold Level** 

C 1,000 ppm

C Per GHS SDS

Other

Residuals/Impurities Evaluation

Completed

Not Completed

Explanation(s) provided for Residuals/Impurities?

Yes ○ No

For all contents above the threshold, the manufacturer has:

Characterized

Yes ○ No

⊙ Yes ○ No

Provided weight and role.

Screened

Provided screening results using HPDC-approved

methods.

Identified Yes ○ No.

Provided name and CAS RN or other identifier.

#### CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR **IMPURITY** 

**GREENSCREEN SCORE | HAZARD TYPE** 

STEEL [ IRON, ELEMENTAL LT-P1 | END MANGANESE LT-P1 | END | MUL | REP | MAM | AQU COPPER LT-P1 | MUL | AQU | MAM NICKEL NoGS CHROMIUM LT-P1 | END | SKI | MAM | REP | RES CARBON LT-UNK TITANIUM LT-UNK | PHY VANADIUM LT-1 | CAN | GEN PHOSPHORUS BM-2 | MAM | PHY | EYE | AQU | SKI MOLYBDENUM LT-UNK | MAM | SKI | REP NIOBIUM LT-UNK NITROGEN NoGS SULFUR, PRECIPITATED LT-UNK | SKI | MAM ALUMINUM BM-1 | END | MAM | PHY BORON NoGS | ZINC COATING (GALVANIZED) [ ZINC (POWDER/DUST) LT-P1 | END | MUL | PHY | AQU ALUMINUM BM-1 | END | MAM | PHY ] PASSIVATION COATING [ WATER (PRIMARY CASRN IS 7732-18-5) BM-4 PHOSPHORIC ACID LT-P1 | SKI | MAM | EYE PHOSPHORIC ACID, CHROMIUM(3+) SALT LT-UNK | SKI CHROMIUM (VI) LT-1 | CAN | END | SKI | DEV | REP | GEN | AQU ]

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1, LT-1, BM-1

Nanomaterial ... No

#### **INVENTORY AND SCREENING NOTES:**

Antimicrobial Pesticides Reporting: This product does not contain substance(s) that are intentionally added above the [Product - 100 ppm] threshold to act as antimicrobials.

Threshold disclosures are provided heat analysis from steel mill certificate per ASTM A653 or ASTM A1003.

## **VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

VOC Content data is not applicable for this product category.

**CERTIFICATIONS AND COMPLIANCE** See Section 3 for additional listings.

VOC emissions: Inherently non-emitting source per LEED LCA: ISO 14040:2006 Environmental management -- Life cycle assessment

# **CONSISTENCY WITH OTHER PROGRAMS**

Pre-checked for LEED v4.1 Option 1.

Third Party Verified?

Yes

O No

PREPARER: Self-Prepared VERIFIER: Green Seal VERIFICATION #: 572-23510 SCREENING DATE: 2025-01-22 PUBLISHED DATE: 2025-02-12 EXPIRY DATE: 2028-01-22

# Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- · Basic Inventory method with Product-level threshold.
- · Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

### STEEL %: 91.5200 - 99.2290

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No

MATERIAL TYPE: Metal

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or are to be expected at or above the Content Inventory Threshold. Supplier SDS states that all commercial steel products may contain small amounts of various elements that generally originate in the raw materials used. The elements not reported in this HPD and are expected to be below the threshold are: antimony, arsenic, cadmium, calcium, cobalt, lead, silicon, tin and zirconium.

OTHER MATERIAL NOTES: This HPD was completed in accordance with the latest HPD standard. Disclosures are per ASTM A1003 & A653. Cold-Formed Steel is ordered from the mill to ASTM Specifications. These ASTM specifications are listed in AISI S100, S220 & S240 and referenced in the IBC.

IRON, ELEMENTAL ID: 7439-89-6

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARI	O SCREENING DATE: 2025-01-23 13:54:01
%: 96.0200 - 99.9050	GreenScreen: LT-P1 RC:	PostC NANO: No	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS	
END	TEDX - Potential Endocrine Disruptors	Potential Endo	crine Disruptor
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION	N
None found			No listings found on Additional Hazard Lists

SUBSTANCE NOTES: 25% standard post-consumer recycled content per LEED. Higher recycled content may be available.

MANGANESE ID: 7439-96-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2025-01-23 14:06:56

%: 0.0100 - 1.6500

GreenScreen: LT-P1

RC: PostC

NANO: No SUBSTANCE ROLE: Alloy element

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 3
AQU	GHS - Japan	H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]
AQU	GHS - Japan	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		Children's Toy Products

COPPER				ID: <b>7440-50-8</b>
HAZARD DATA SOURCE:	Pharos Chemical and Materials Li	brary	HAZARD	SCREENING DATE: 2025-01-23 14:08:25
%: 0.0100 - 0.5000	GreenScreen: LT-P1	RC: PostC	NANO: <b>No</b>	SUBSTANCE ROLE: Alloy element

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
MAM	GHS - Japan	H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List
		Precautionary list of substances recommended for avoidance
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List
		Antimicrobials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute	C2C Certified v4.1 Product Standard Restricted
TILOTHIOTED LIST	(C2CPII)	Substances - Effective July 1, 2024

NICKEL				ID: <b>21595-53-9</b>
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	1	HAZARD	SCREENING DATE: 2025-01-23 14:10:35
%: 0.0100 - 0.3000	GreenScreen: NoGS	RC: PostC	NANO: <b>No</b>	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	arnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			Ν	lo listings found on Additional Hazard Lists

CLIDCTANCE DOLE: Allow clament

%: 0.0100 - 0.3000	GreenScreen: LT-P1	RC: PostC	NANO: <b>No</b>	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
END	TEDX - Potential Endocrine Dist	TEDX - Potential Endocrine Disruptors		ine Disruptor
SKI	MAK		Sensitizing Subs	tance Sh - Danger of skin sensitization
MAM	GHS - Japan	GHS - Japan		e respiratory irritation [Specific target ingle exposure - Category 3]
REP	GHS - New Zealand		Reproductive tox	icity category 2
RES	GHS - Japan		H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled [Respiratory sensitization Category 1A]	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Cradle to Cradle Products Innov (C2CPII)	Cradle to Cradle Products Innovation Institute (C2C PII)  C2C Certified v4.0 Product Standard Substances List (RSL) - Effective July		
			Biological and Er	nvironmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innov (C2CPII)	ration Institute		0 Product Standard Restricted (RSL) - Effective July 1, 2022
			Children's Produ	cts
RESTRICTED LIST	Cradle to Cradle Products Innov (C2CPII)	ation Institute		0 Product Standard Restricted (RSL) - Effective July 1, 2022
			Cosmetics & Per	sonal Care Products
RESTRICTED LIST	Cradle to Cradle Products Innov (C2CPII)	ation Institute		1 Product Standard Restricted ective July 1, 2024
			Children's Toy Pr	roducts
RESTRICTED LIST	Cradle to Cradle Products Innov (C2CPII)	ation Institute		1 Product Standard Restricted ective July 1, 2024
			Cosmetics and P	ersonal Care Products

SUBSTANCE NOTES: 25% standard post-consumer recycled content per LEED. Higher recycled content may be available.

**CARBON** ID: **7440-44-0** 

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-01-23 14:13:39

**CHROMIUM** 

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

ID: **7440-47-3** 

HAZARD SCREENING DATE: 2025-01-23 14:09:30

%: 0.0100 - 0.2500	GreenScreen: LT-UNK	RC: PostC	NANO: <b>No</b>	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	rnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Green Science Policy Institute (C	SPI)	GSPI - Six Class	es Precautionary List
			Antimicrobials	

TITANIUM				ID: <b>7440-32-6</b>
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	у	HAZARD	SCREENING DATE: 2025-01-23 14:15:49
%: 0.0100 - 0.2000	GreenScreen: LT-UNK	RC: PostC	NANO: <b>No</b>	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
PHY	GHS - Japan		H225 - Highly fla	ammable liquid and vapour [Flammable y 1]
PHY	GHS - Japan		H250 - Catches [Pyrophoric solid	fire spontaneously if exposed to air ds - Category 1]
PHY	GHS - Japan			ting;; may catch fire [Self-heating mixtures - Category 1]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			1	No listings found on Additional Hazard Lists

SUBSTANCE NOTES: 25% standard post-consumer recycled content per LEED. Higher recycled content may be available.

VANADIUM				ID: <b>22541-77-1</b>
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD	SCREENING DATE: 2025-01-23 14:17:23
%: 0.0100 - 0.2000	GreenScreen: LT-1	RC: PostC	NANO: <b>No</b>	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
CAN	MAK		Carcinogen Grooman	up 2 - Considered to be carcinogenic for
GEN	MAK		Germ Cell Mutaç	gen 2
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			N	No listings found on Additional Hazard Lists

PHOSPHORUS ID: 7723-14-0

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD	SCREENING DATE: 2025-01-23 14:14:42		
%: 0.0100 - 0.2000	GreenScreen: BM-2	RC: PostC	NANO: <b>No</b>	SUBSTANCE ROLE: Alloy element		
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS			
MAM	US EPA - EPCRA Extremely Haza Substances	ırdous	Extremely Hazar	dous Substances		
MAM	GHS - New Zealand		Specific target or 1	rgan toxicity - repeated exposure category		
PHY	GHS - New Zealand		Pyrophoric solids	s category 1		
EYE	GHS - New Zealand		Serious eye damage category 1			
AQU	GHS - New Zealand		Hazardous to the	e aquatic environment - acute category 1		
AQU	GHS - New Zealand	GHS - New Zealand		Hazardous to the aquatic environment - chronic category 1		
MAM	Québec CSST - WHMIS 1988		Class D1A - Very serious toxic effe	y toxic material causing immediate and ects		
SKI	GHS - New Zealand		Skin corrosion ca	ategory 1A		
MAM	GHS - New Zealand		Acute dermal tox	cicity category 1		
MAM	GHS - New Zealand		Acute inhalation	toxicity category 1		
MAM	GHS - New Zealand		Acute oral toxicit	y category 1		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION			
RESTRICTED LIST	Cradle to Cradle Products Innovati (C2CPII)	on Institute		.0 Product Standard Restricted (RSL) - Effective July 1, 2022		
			Cosmetics & Per	sonal Care Products		
RESTRICTED LIST	Cradle to Cradle Products Innovati (C2CPII)	on Institute		.1 Product Standard Restricted ective July 1, 2024		
			Cosmetics and P	Personal Care Products		

SUBSTANCE NOTES: 25% standard post-consumer recycled content per LEED. Higher recycled content may be available.

MOLYBDENUM ID: 7439-98-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-01-23 14:18:15

%: 0.0100 - 0.1600 GreenScreen: LT-UNK RC: PostC NANO: No SUBSTANCE ROLE: Alloy element

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MAM	GHS - Japan	H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]
REP	GHS - New Zealand	Reproductive toxicity category 2
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

HAZARD DATA SOURCE: I	Pharos Chemical and Materials Library	1	HAZARD	SCREENING DATE:	2025-01-23 14:19:35
%: 0.0010 - 0.1500	GreenScreen: LT-UNK	RC: PostC	NANO: <b>No</b>	SUBSTANCE RO	LE: Alloy element
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No wa	arnings found on HPD	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
None found			N	lo listings found on Ad	Iditional Hazard Lists

HAZARD DATA SOURCE: P	haros Chemical and Materials Librar	У	HAZARD	SCREENING DATE: 2025-01-23 14:22:5
%: <b>0.0010 - 0.1000</b>	GreenScreen: NoGS	RC: PostC	NANO: <b>No</b>	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	arnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
EXEMPT	European Union / European Co	ommission (EU	EU - REACH Ex	emptions
	-,		Exempted from I safety	REACH Annex IV listing due to intrinsic

SULFUR, PRECIPITATED ID: 7704-34-9

HAZARD DATA SOURCE:	Pharos Chemical and Materials Li	brary	HAZARD	SCREENING DATE: 2025-01-23 14:20:
%: 0.0100 - 0.0400	GreenScreen: LT-UNK	RC: PostC	NANO: <b>No</b>	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	LIST NAME AND SOURCE	≣	WARNINGS	
SKI	EU - GHS (H-Statements)	Annex 6 Table 3-1	H315 - Causes s Category 2]	skin irritation [Skin corrosion/irritation -
SKI	GHS - New Zealand		Skin irritation cat	tegory 2
SKI	GHS - Australia		H315 - Causes s Category 2]	skin irritation [Skin corrosion/irritation -
MAM	GHS - Japan			damage to organs [Specific target toxicity following single exposure -
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	=	NOTIFICATION	
RESTRICTED LIST	Green Science Policy Instit	tute (GSPI)	GSPI - Six Class	ses Precautionary List
			Antimicrobials	

SUBSTANCE NOTES: 25% standard post-consumer recycled content per LEED. Higher recycled content may be available.

ALUMINUM ID: 7429-90-5

HAZARD DATA SOURCE:	Pharos Chemical and Materials L	ibrary	HAZARD	SCREENING DATE: 2025-01-23 14:21:25
%: 0.0010 - 0.0100	GreenScreen: BM-1	RC: PostC	NANO: <b>No</b>	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	LIST NAME AND SOURC	E	WARNINGS	
END	TEDX - Potential Endocrin	e Disruptors	Potential Endocr	rine Disruptor
MAM	GHS - Japan		repeated exposu	damage to organs through prolonged or are [Specific target organs/systemic toxicity and exposure - Category 1]
MAM	GHS - Japan			damage to organs [Specific target toxicity following single exposure -
PHY	GHS - Japan		[Substances and	et with water releases flammable gas I mixtures, which in contact with water, gases - Category 2]
PHY	GHS - Malaysia			fire spontaneously if exposed to air ds; Pyrophoric solids - Category 1]
PHY	GHS - Australia			fire spontaneously if exposed to air ds; Pyrophoric solids - Category 1]
PHY	GHS - New Zealand		Pyrophoric solids	s category 1

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		Children's Toy Products

SUBSTANCE NOTES: 25% standard post-consumer recycled content per LEED. Higher recycled content may be available.

BORON				ID: <b>14798-13-1</b>
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD	SCREENING DATE: 2025-01-23 14:22:08
%: 0.0010 - 0.0100	GreenScreen: NoGS	RC: PostC	NANO: <b>No</b>	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	arnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			N	No listings found on Additional Hazard Lists

ZINC COATING (GALVANIZED) %: 0.7700 - 8.4300

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No MATERIAL TYPE: Metal

RESIDUALS AND IMPURITIES NOTES: ASTM Standards require zinc coating to be 99% pure zinc with a small amount of aluminum to be added for adhesion. Lead levels are limited to 0.009% and is below the Content Reporting Threshold.

OTHER MATERIAL NOTES: Galvanized coating in compliance with ASTM A1003 & ASTM A653

ZINC (POWDER/DUST)				ID: <b>7440-66-6</b>
HAZARD DATA SOURCE:	Pharos Chemical and Materials Libi	rary	HAZARD S	SCREENING DATE: 2025-01-23 14:28:12
%: 99.7500 - 99.9500	GreenScreen: LT-P1	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Galvanizing

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H260 - In contact with water releases flammable gases which may ignite spontaneously [Substances and mixtures which, in contact with water, emit flammable gases - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
PHY	GHS - Australia	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
PHY	GHS - New Zealand	Pyrophoric solids category 1
PHY	GHS - Australia	H260 - In contact with water releases flammable gases which may ignite spontaneously [Substances and mixtures which, in contact with water, emit flammable gases - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute category 1
AQU	GHS - Japan	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	GHS - Japan	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - Australia	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 1
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List
		Antimicrobials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		Children's Toy Products

SUBSTANCE NOTES:

**ALUMINUM** 

PHY

ADDITIONAL LISTINGS

RESTRICTED LIST

RESTRICTED LIST

RESTRICTED LIST

HAZARD DATA SOURCE:	Pharos Chemical and Materials Lib	brary	HAZAR	RD SCREENING DATE: 2025-01-23 14:30:14
%: 0.0500 - 0.2500	GreenScreen: BM-1	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Corrosion inhibitor
HAZARD TYPE	LIST NAME AND SOURCE	<u> </u>	WARNINGS	
END	TEDX - Potential Endocrine	Disruptors	Potential Endo	ocrine Disruptor
MAM	GHS - Japan		repeated expo	s damage to organs through prolonged or osure [Specific target organs/systemic toxicity ated exposure - Category 1]
MAM	GHS - Japan			s damage to organs [Specific target nic toxicity following single exposure -
PHY	GHS - Japan		[Substances a	tact with water releases flammable gas and mixtures, which in contact with water, le gases - Category 2]
PHY	GHS - Malaysia			es fire spontaneously if exposed to air quids; Pyrophoric solids - Category 1]
PHY	GHS - Australia			es fire spontaneously if exposed to air quids; Pyrophoric solids - Category 1]

Pyrophoric solids category 1

C2C Certified v4.0 Product Standard Restricted

Biological and Environmentally Released Materials

C2C Certified v4.0 Product Standard Restricted

C2C Certified v4.1 Product Standard Restricted

Substances - Effective July 1, 2024

Substances List (RSL) - Effective July 1, 2022

Substances List (RSL) - Effective July 1, 2022

**NOTIFICATION** 

Children's Products

Children's Toy Products

GHS - New Zealand

(C2CPII)

(C2CPII)

(C2CPII)

LIST NAME AND SOURCE

Cradle to Cradle Products Innovation Institute

Cradle to Cradle Products Innovation Institute

Cradle to Cradle Products Innovation Institute

SUBSTANCE NOTES:

PASSIVATION COATING	%: 0.0010 - 0.0500	
PRODUCT THRESHOLD: 100	RESIDUALS AND IMPURITIES EVALUATION	MATERIAL TYPE: Other: Short term corrosion
ppm	COMPLETED: No	inhibitor

RESIDUALS AND IMPURITIES NOTES: Hexavalent chromium (Cr(VI)) is widely used in cold-formed steel and is considered a highly effective short-term corrosion inhibitor due to its ability to rapidly form a protective layer on metal surfaces.

ID: 7429-90-5

OTHER MATERIAL NOTES: Passivation coatings using Chromium VI are industry standard for cold-formed steel. The percentage by mass is below the reportable threshold.

## **WATER (PRIMARY CASRN IS 7732-18-5)**

**PHOSPHORIC ACID** 

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

ID: **558440-22-5** 

ID: **7664-38-2** 

HAZARD SCREENING DATE: 2025-02-10 19:23:44

HAZARD DATA SOURCE: F	haros Chemical and Materials Lib	rary	HAZARD S	SCREENING DATE: 2025-02-10 19:28:2
%: 40.0000 - 70.0000	GreenScreen: BM-4	RC: UNK	NANO: <b>No</b>	SUBSTANCE ROLE: Solvent
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wai	rnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
EXEMPT	European Union / European EC)	Commission (EU	EU - REACH Exe	mptions
	20)		Exempted from R safety	EACH Annex IV listing due to intrinsic

SUBSTANCE NOTES: Used for short-term corrosion resistance, typically used in cold-formed steel framing materials.

%: 10.0000 - 20.0000	GreenScreen: LT-P1	RC: UNK	NANO: <b>No</b>	SUBSTANCE ROLE: Corrosion inhibitor
HAZARD TYPE	LIST NAME AND SOURCE	Ē	WARNINGS	
SKI	EU - GHS (H-Statements)	Annex 6 Table 3-1		es severe skin burns and eye damage [Skin ation - Category 1A or 1B or 1C]
MAM	GHS - Japan			es damage to organs [Specific target nic toxicity following single exposure -
EYE	GHS - Japan		H318 - Cause eye irritation -	es serious eye damage [Serious eye damage / Category 1]
SKI	GHS - Japan			es severe skin burns and eye damage [Skin tation - Category 1]
SKI	GHS - Australia			es severe skin burns and eye damage [Skin ation - Category 1A or 1B or 1C]
MAM	GHS - Japan		H331 - Toxic i mist) - Catego	if inhaled [Acute toxicity (inhalation: dust, ory 3]

**NOTIFICATION** 

Antimicrobials

GSPI - Six Classes Precautionary List

SUBSTANCE NOTES: Used for short-term corrosion resistance, typically used in cold-formed steel framing materials.

Green Science Policy Institute (GSPI)

LIST NAME AND SOURCE

ADDITIONAL LISTINGS

RESTRICTED LIST

RC: UNK  NANO: No  SUBSTANCE ROLE: Corrosion inhibit  WARNINGS  Sensitizing Substance Sh - Danger of skin sensitization  NOTIFICATION  In Institute  C2C Certified v4.0 Product Standard Restricted
Sensitizing Substance Sh - Danger of skin sensitization  NOTIFICATION
NOTIFICATION
n Institute C2C Certified v4.0 Product Standard Restricted
Substances List (RSL) - Effective July 1, 2022
Biological and Environmentally Released Materials
n Institute C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
Children's Products
n Institute C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
Children's Toy Products

SUBSTANCE NOTES: Used for short-term corrosion resistance, typically used in cold-formed steel framing materials.

CHROMIUM (VI)					ID: <b>18540-29-9</b>
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	,	HAZAR	D SCREENING DATE: 2025	5-01-23 14:31:13
%: 10.0000 - 20.0000	GreenScreen: LT-1	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Corr	osion inhibitor

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	CA EPA - Prop 65	Carcinogen
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen
DEV	CA EPA - Prop 65	Developmental toxicity
CAN	US EPA - IRIS Carcinogens	(1986) Group A - Human Carcinogen
CAN	US EPA - IRIS Carcinogens	(1996) Known/likely human Carcinogen
REP	CA EPA - Prop 65	Reproductive Toxicity - Female
REP	CA EPA - Prop 65	Reproductive Toxicity - Male
GEN	MAK	Germ Cell Mutagen 2
CAN	GHS - Korea	H350 - May cause cancer [Carcinogenicity - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]
CAN	EU - REACH Annex XVII CMRs	Carcinogens: Category 1B

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List
		Precautionary list of substances recommended for avoidance
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List
		Certain Metals
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Core Restrictions
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Formulated Consumer Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Footwear, Apparel & Jewelry Products
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective April 1, 2024
		Red List substances to avoid in Living Building Challenge V4.0 projects
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		All Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		Electronics (RoHS)
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		Children's Toy Products

 ${\tt SUBSTANCE\ NOTES:}\ Used\ for\ short-term\ corrosion\ resistance,\ typically\ used\ in\ cold-formed\ steel\ framing\ materials.$ 

# Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

**EXPIRY DATE:** 

#### **VOC EMISSIONS**

### Inherently non-emitting source per LEED

CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: ALL

ISSUE DATE: 2025-01-23 00:00:00

CERTIFIER OR LAB: None

**CERTIFICATE URL:** 

CERTIFICATION AND COMPLIANCE NOTES:

## **LCA**

# ISO 14040:2006 Environmental management -- Life cycle assessment

CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: ALL

ISSUE DATE: 2021-07-21 00:00:00 EXPIRY DATE: 2026-07-21 00:00:00 CERTIFIER OR LAB: UL

**CERTIFICATE URL:** 

CERTIFICATION AND COMPLIANCE NOTES:

# Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

#### SELF DRILLING/SELF TAPPING SCREWS

MANUFACTURER (OR GENERIC): Generic

HPD URL: No HPD available ACCESSORY TYPE: Fastner

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Used to connect cold-formed steel members together.

## Section 5: General Notes

Steel products processed by Marino\WARE are not hazardous per OSHA GHS 29 CFR 1910, 1915, 1926. However, individual customer processes (such as welding, sawing during installation at the job site) may result in the formation of fumes, dust (combustible or otherwise) and/or particulate that may present the following hazards: OSHA HAZARDS: Carcinogen; Skin Sensitizer; Target Organ Effect - Lungs; GHS CLASSIFICATION: Carcinogenicity (Category 2); Skin Sensitization (Category 1); Specific Target Organ Toxicity-Repeated Exposure (Category 1); HAZARD STATEMENT(S): H317 Dust/fumes may cause an allergic skin reaction; H351 Dust/fumes suspected of causing cancer via inhalation; H372 Inhalation of dust/fumes causes damage to respiratory tract through prolonged or repeated exposure; PRECAUTIONARY STATEMENT(S): P202 Do not handle until all safety precautions have been read and understood; P261: Avoid breathing dust/fumes; P281 Use personal protective equipment as required; P308+P313 If exposed or concerned: Get medical advice/attention.

#### **MANUFACTURER INFORMATION**

MANUFACTURER: Marino\WARE ADDRESS: 400 Metuchen Rd. South Plainfield. NJ 07080

COUNTRY: USA

WEBSITE: www.marinoware.com
CONTACT NAME: Jim DesLaurier

TITLE: **Technical Services** PHONE: **(866) 545-1545** 

EMAIL: technicalservices@marinoware.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

#### KEY

**Hazard Types** 

**AQU** Aquatic toxicity

**CAN** Cancer

**DEV** Developmental toxicity

**END** Endocrine activity

EYE Eye irritation/corrosivity

**GEN** Gene mutation

**GLO** Global warming

**LAN** Land toxicity

MAM Mammalian/systemic/organ toxicity

MUL Multiple

**NEU** Neurotoxicity

NF Not found on Priority Hazard Lists

**OZO** Ozone depletion

PBT Persistent, bioaccumulative, and toxic

PHY Physical hazard (flammable or reactive)

**REP** Reproductive

**RES** Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

**UNK** Unknown

### GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement)

**BM-2** Benchmark 2 (use but search for safer substitutes)

BM-1 Benchmark 1 (avoid - chemical of high concern)

BM-U Benchmark Unspecified (due to insufficient data)

LT-P1 List Translator Possible 1 (Possible Benchmark-1)

LT-1 List Translator 1 (Likely Benchmark-1)

LT-UNK List Translator Benchmark Unknown

NoGS No GreenScreen.

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, www.greenscreenchemicals.org, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

## **Recycled Types**

PreC Pre-consumer recycled content

PostC Post-consumer recycled content

**UNK** Inclusion of recycled content is unknown

None Does not include recycled content

### Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

## **Inventory Methods:**

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material

Nested Method / Product Threshold Substances listed within each material per threshold indicated per product

Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology

Third Party Verified Verification by independent certifier approved by HPDC

Preparer Third party preparer, if not self-prepared by manufacturer

Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and

