

HPD UNIQUE IDENTIFIER: 21024

CLASSIFICATION: 05 40 00 & 09 22 16

PRODUCT DESCRIPTION: Marino\WARE helps build America. A wholly U.S. owned and operated steel framing manufacturer, Marino\WARE provides a complete line of steel construction products and services used in commercial building across the country. The company's three large, self-sufficient mega-plants in South Plainfield, NJ, Griffin, GA, and East Chicago, IN, each make every product sold all under one roof. This HPD covers the following Marino\WARE products: Structural, StudRite, JoistRite, Clipsource Connectors, QuickFrame, ViperStud, Shaftwall, Area Separation Wall, SoundGuard, FAS Track, Slotted Track, Lath, and accessories. In order to obtain cold-formed steel framing products that comply with the residual disclosure levels of this HPD, you must request mill certified steel at the time you place your order. If the request is made after manufacturing we cannot guarantee the applicability of this document. MasterSpecs 09 22 16.00 & 05 40 00

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
 Basic Method

Threshold Disclosed Per

- Material
 Product

Threshold level

- 100 ppm
 1,000 ppm
 Per GHS SDS
 Other

Residuals/Impurities

- Considered
 Partially Considered
 Not Considered

Explanation(s) provided
for Residuals/Impurities?

- Yes No

All Substances Above the Threshold Indicated Are:

Characterized Yes Ex/SC Yes No
% weight and role provided for all substances.

Screened Yes Ex/SC Yes No
All substances screened using Priority Hazard Lists with results disclosed.

Identified Yes Ex/SC Yes No
All substances disclosed by Name (Specific or Generic) and 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.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY

GREENSCREEN SCORE | HAZARD TYPE

HOT-DIP GALVANIZED STEEL [**STEEL** NoGS **ZINC (POWDER)** LT-P1 | AQU | PHY | END | MUL **HYDROCHLORIC ACID** BM-2 | RES | SKI | MAM **EDETIC ACID** BM-2 | EYE | MUL **OXIRANE, METHYL, POLYMER AND OXIBANE, BUTYL ETHER** LT-UNK **MINERAL OILS** LT-UNK **CHROMIUM (VI) OXIDE** LT-1 | RES | CAN | DEL | REP | GEN | AQU | PHY | MAM | SKI | MUL **SODIUM NITRITE** LT-P1 | AQU | PHY | MAM | END | MUL **POTASSIUM HYDROXIDE** LT-P1 | SKI **PHOSPHORIC ACID** LT-P1 | SKI **PHOSPHORIC ACID, CHROMIUM(3++) SALT (1:1)** LT-P1 | SKI]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

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: Extended Producer Responsibility (EPR) program - LEED compliant

VOC content: Environmental Product Declaration (EPD) by UL

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

Yes

No

PREPARER: **Self-Prepared**

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2020-07-10

PUBLISHED DATE: 2020-07-14

EXPIRY DATE: 2023-07-10



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 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

HOT-DIP GALVANIZED STEEL

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were Not Considered.

OTHER PRODUCT NOTES:

STEEL

ID: 12597-69-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-07-10

?: 86.8600 - 99.6000

GS: NoGS

RC: PostC

NANO: No

SUBSTANCE ROLE: Galvanizing

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

ZINC (POWDER)

ID: 7440-66-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-07-10

?: 0.4000 - 10.0000

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Coating

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

ACUTE AQUATIC

EU - GHS (H-Statements)

H400 - Very toxic to aquatic life

CHRON AQUATIC

EU - GHS (H-Statements)

H410 - Very toxic to aquatic life with long lasting effects

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H250 - Catches fire spontaneously if exposed to air

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H260 - In contact with water releases flammable gases which may ignite spontaneously

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES:

HYDROCHLORIC ACID

ID: 7647-01-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2020-07-10**%: **0.0000 - 3.0000**GS: **BM-2**RC: **None**NANO: **No**SUBSTANCE ROLE: **Coating**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rr) - irritant-induced
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances

SUBSTANCE NOTES:

EDETIC ACID

ID: 60-00-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2020-07-10**%: **0.0000 - 0.0100**GS: **BM-2**RC: **None**NANO: **No**SUBSTANCE ROLE: **Coating**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES:

OXIRANE, METHYL, POLYMER AND OXIBANE, BUTYL ETHER

ID: 9038-95-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2020-07-10**%: **0.0000 - 0.0100**GS: **LT-UNK**RC: **None**NANO: **No**SUBSTANCE ROLE: **Coating**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Proxy for reported component Polyalkylene Glycol Mixture

MINERAL OILS

ID: 8020-83-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2020-07-10**%: **0.0000 - 0.1000**GS: **LT-UNK**RC: **None**NANO: **No**SUBSTANCE ROLE: **Coating**

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Proxy for reported component Petroleum, Natural or Synthetic Oils

CHROMIUM (VI) OXIDE

ID: 1333-82-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2020-07-10**%: **0.0000 - 0.0100**GS: **LT-1**RC: **None**NANO: **No**SUBSTANCE ROLE: **Corrosion inhibitor**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen
CANCER	EU - SVHC Authorisation List	Carcinogenic - Candidate list
CANCER	EU - SVHC Authorisation List	Carcinogenic - Banned unless Authorised
GENE MUTATION	EU - SVHC Authorisation List	Mutagenic - Candidate list
GENE MUTATION	EU - SVHC Authorisation List	Mutagenic - Banned unless Authorised
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H271 - May cause fire or explosion; strong oxidiser
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
MAMMALIAN	EU - GHS (H-Statements)	H311 - Toxic in contact with skin
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
MAMMALIAN	EU - GHS (H-Statements)	H330 - Fatal if inhaled
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
GENE MUTATION	EU - GHS (H-Statements)	H340 - May cause genetic defects
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer

CANCER	EU - GHS (H-Statements)	H350i - May cause cancer by inhalation
REPRODUCTIVE	EU - GHS (H-Statements)	H361f - Suspected of damaging fertility
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 1 - Substances known to be Carcinogenic to man
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
GENE MUTATION	EU - REACH Annex XVII CMRs	Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization
CANCER	GHS - Korea	Carcinogenicity - Category 1 [H350 - May cause cancer]
CANCER	EU - Annex VI CMRs	Carcinogen Category 1A - Known human Carcinogen based on human evidence
GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B
GENE MUTATION	GHS - New Zealand	6.6A - Known or presumed human mutagens
CANCER	GHS - New Zealand	6.7A - Known or presumed human carcinogens
REPRODUCTIVE	GHS - New Zealand	6.8A - Known or presumed human reproductive or developmental toxicants
CANCER	GHS - Japan	Carcinogenicity - Category 1A [H350]
GENE MUTATION	GHS - Japan	Germ cell mutagenicity - Category 1B [H340]
REPRODUCTIVE	GHS - Japan	Toxic to reproduction - Category 1B [H360]
GENE MUTATION	MAK	Germ Cell Mutagen 2
CANCER	GHS - Australia	H350 - May cause cancer

SUBSTANCE NOTES: Galvanized steel typically leaves the mill with a passivation (anti-corrosion) coating. The passivant substances indicated in this HPD represent a standard mixture whose total percentage by mass is less than 0.01% compared to the product. Steel coated with an alternative, Cr6-free passivant can be obtained. Extended lead-times will apply, and products without passivant are more susceptible to corrosion.

SODIUM NITRITE

ID: 7632-00-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-10**

#: **0.0000 - 0.0100**

GS: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Coating**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H272 - May intensify fire; oxidiser
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters

SUBSTANCE NOTES:

POTASSIUM HYDROXIDE

ID: 1310-58-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-10**

#: **0.0000 - 0.0100**

GS: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Coating**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage

SUBSTANCE NOTES:

PHOSPHORIC ACID

ID: 7664-38-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-10**

#: **0.0000 - 0.0100**

GS: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Corrosion inhibitor**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage

SUBSTANCE NOTES: Galvanized steel typically leaves the mill with a passivation (anti-corrosion) coating. The passivant substances indicated in this HPD represent a standard mixture whose total percentage by mass is less than 0.01% compared to the product. Steel coated with an alternative, Cr6-free passivant can be obtained. Extended lead-times will apply, and products without passivant are more susceptible to corrosion.

PHOSPHORIC ACID, CHROMIUM(3++) SALT (1:1)

ID: 7789-04-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-10**

#: **0.0000 - 0.0100**

GS: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Corrosion inhibitor**

SKIN SENSITIZE

MAK

Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Galvanized steel typically leaves the mill with a passivation (anti-corrosion) coating. The passivant substances indicated in this HPD represent a standard mixture whose total percentage by mass is less than 0.01% compared to the product. Steel coated with an alternative, Cr6-free passivant can be obtained. Extended lead-times will apply, and products without passivant are more susceptible to corrosion.

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.

VOC EMISSIONS

Extended Producer Responsibility (EPR) program - LEED compliant

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2020-**

EXPIRY DATE:

CERTIFIER OR LAB: **LEED**

APPLICABLE FACILITIES: **All three Marino\Ware plants in South Plainfield, NJ, Griffin, GA and East Chicago, IN.**

07-10

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **Cold-Formed Steel Framing is considered an inherently non-emitting source per LEED**

VOC CONTENT

Environmental Product Declaration (EPD) by UL

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2015-**

EXPIRY DATE:

CERTIFIER OR LAB: **UL**

APPLICABLE FACILITIES: **South Plainfield, NJ, Griffin , GA & East Chicago, IN**

08-17

Environment

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.

STEEL TAPPING OR SELF DRILLING SCREWS FOR COLD-FORMED STEEL

HPD URL: **NO HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Used to connect framing 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: **100 Hendrick Drive**

Suite 200

McDonough GA 30253, United States

WEBSITE: **www.marinoware.com**

CONTACT NAME: **Technical Services**

TITLE: **Technical Services**

PHONE: **(866) 545-15454**

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 (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)

NoGS No GreenScreen.

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

