

**CLASSIFICATION:** 05 40 00 - Cold-Formed Steel Framing

**PRODUCT DESCRIPTION:** To obtain cold-formed steel framing products with Residuals Disclosure levels of 1,000 ppm you must request mill certified steel when you place your order. If this request is made after manufacturing we cannot guarantee the desired Residuals Disclosure levels of 1,000 ppm. Base Metal: Steel. Base Metal Coating: Galvanized with Passivation (if applicable). Product ID - HPD covers Interior Framing Products, Interior Finishing Products, Exterior Framing Products, Floor Framing Products, Clips & Connectors, and Plaster Stucco & Veneer Products made of Cold-Formed Steel Framing. This includes, but is not limited to the following brand name products and systems, RedHeader PRO™ Rough Opening System, ProSTUD® Drywall Framing System, HDS®, MaxTrak®. Additional MasterSpecs: 09 22 16.00 Finishes: Non-Structural Metal Framing, 09 24 00 Finishes: Cement Plastering, 09 21 16.23 Finishes: Gypsum Board Shaft Wall Assemblies. **SAFETY:** Occupational Exposure Limits (OELs): Cold-Formed Steel Product as sold and shipped in its physical form does not present an inhalation, ingestion or contact hazard. However, operations such as burning, welding (high temperature), sawing, brazing, machining, grinding, etc. may produce fumes and/or particulates. Please refer to the ClarkDietrich Safety Data Sheet (SDS) for more information.

## Section 1: Summary

## Nested 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
- Per OSHA MSDS
- Other

#### Residuals/Impurities

Residuals/Impurities Considered in 0 of 3 Materials

Explanation(s) provided for Residuals/Impurities?

- Yes
- No

Are All Substances Above the Threshold Indicated:

**Characterized**  Yes  No

Percent Weight and Role Provided?

**Screened**  Yes  No

Using Priority Hazard Lists with Results Disclosed?

**Identified**  Yes  No

Name and Identifier Provided?

### 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**

**STEEL** [ **IRON** LT-P1 | END **MANGANESE** LT-P1 | END | MUL | REP **PHOSPHORUS** BM-2 | PHY | MAM **COPPER** LT-UNK **NICKEL** LT-1 | CAN | RES | SKI | MAM | MUL **CHROMIUM** LT-P1 | RES | END | SKI **MOLYBDENUM** LT-UNK **CARBON** LT-UNK **VANADIUM** LT-1 | MUL | CAN | GEN **NIوبيUM** LT-UNK **TITANIUM** LT-UNK **SULFUR** LT-UNK | SKI ] **GALVANIZATION (COATING)** [ **ZINC** LT-P1 | AQU | PHY | END | MUL **ALUMINUM** LT-P1 | RES | PHY | END ] **PASSIVATION COATING** [ **PHOSPHORIC ACID** LT-P1 | SKI **CHROMIUM (III) CHROMATE** LT-1 | CAN | DEL | REP | AQU | PHY | SKI | MUL | GEN **CHROMIUM (VI) OXIDE** LT-1 | RES | CAN | DEL | REP | GEN | AQU | PHY | MAM | SKI | MUL **PHOSPHORIC ACID, CHROMIUM(3++) SALT (1:1)** LT-P1 | SKI **CHROMIUM FLUORIDE (GRF3)** LT-P1 | SKI **HYDROFLUORIC ACID** BM-2 | MAM | SKI | MUL | PHY **CHROMIUM NITRATE** LT-P1 | SKI **MANGANESE, BIS(D-GLUCONATO-O1,O2)-, (T-4)-** LT-UNK **MANGANESE CITRATE** NoGS **SILICA, AMORPHOUS** LT-P1 | CAN **NITRIC ACID** LT-P1 | PHY | SKI | MAM **CHROMIUM (III) OXIDE** 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:

Per certification provided by steel mills.

### VOLATILE ORGANIC COMPOUND (VOC) CONTENT

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

VOC emissions: Inherently non-emitting source per LEED®

### CONSISTENCY WITH OTHER PROGRAMS

Third Party Verified?

- Yes
- No

PREPARER: **Self-Prepared**

VERIFIER:

VERIFICATION #:

SCREENING DATE: **2018-07-11**

PUBLISHED DATE: **2018-07-15**

EXPIRY DATE: **2021-07-11**



## 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, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-standard](http://www.hpd-collaborative.org/hpd-2-1-standard)

### STEEL

#: 90.8200 - 99.6400

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: All commercial steel products contain small amounts of various elements in addition to those listed. These small quantities are frequently referred to as “trace” or “residual” elements that generally originate in the raw materials used. Steel products may contain the following trace or residual elements including typical percentages for the elements identified: aluminum (0.01-0.5), boron ( $\leq 0.005$  max, typically 0.001%), calcium ( $\leq 0.005$  max, typically 0.0003%), nitrogen ( $\leq 0.01$  max, typically 0.006%), silicon ( $\leq 0.03$  max, typically 0.002%), and tin ( $\leq 0.03$  max, typically 0.002%). Other trace elements not frequently identified, may include antimony, arsenic, cadmium, cobalt, lead, and zirconium.

OTHER MATERIAL NOTES: Final percentage concentration of steel in the finished product depends on the ratio of steel (base metal) to the corrosion resistant galvanized coating. For example, a G90 coating on a 15-mil steel product represents 9.2% of the overall product weight, while a G40 coating on a 97-mil steel product only represents 0.4% of the overall product weight. These percentages will vary depending on the product mix ordered.

### IRON

ID: 7439-89-6

#: 96.0600 - 97.8090

GS: LT-P1

RC: Both

NANO: No

ROLE: Base Metal

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES:

### MANGANESE

ID: 7439-96-5

#: 1.1500 - 1.6500

GS: LT-P1

RC: Both

NANO: No

ROLE: Alloying Metal

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

REPRODUCTIVE

Japan - GHS

Toxic to reproduction - Category 1B

SUBSTANCE NOTES:

**PHOSPHORUS**

ID: 7723-14-0

%: **0.2000 - 0.2300**      GS: **BM-2**      RC: **Both**      NANO: **No**      ROLE: **Alloying Metal**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H228 - Flammable solid

MAMMALIAN

US EPA - EPCRA Extremely Hazardous Substances

Extremely Hazardous Substances

SUBSTANCE NOTES:

**COPPER**

ID: 7440-50-8

%: **0.2000 - 0.5000**      GS: **LT-UNK**      RC: **Both**      NANO: **No**      ROLE: **Alloying Metal**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**NICKEL**

ID: 7440-02-0

%: **0.2000 - 0.3000**      GS: **LT-1**      RC: **None**      NANO: **No**      ROLE: **Alloying Metal**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

IARC

Group 1 - Agent is Carcinogenic to humans

CANCER

IARC

Group 2b - Possibly carcinogenic to humans

CANCER

CA EPA - Prop 65

Carcinogen

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

US NIH - Report on Carcinogens

Reasonably Anticipated to be Human Carcinogen

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SKIN SENSITIZE

EU - GHS (H-Statements)

H317 - May cause an allergic skin reaction

CANCER

EU - GHS (H-Statements)

H351 - Suspected of causing cancer

ORGAN TOXICANT

EU - GHS (H-Statements)

H372 - Causes damage to organs through prolonged or repeated exposure

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

CANCER

MAK

Carcinogen Group 1 - Substances that cause cancer in man

RESPIRATORY

MAK

Sensitizing Substance Sah - Danger of airway &amp; skin sensitization

SUBSTANCE NOTES:

## CHROMIUM

ID: 7440-47-3

#: **0.1500 - 0.3000** GS: **LT-P1** RC: **Both** NANO: **No** ROLE: **Alloying Metal**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES:

## MOLYBDENUM

ID: 7439-98-7

#: **0.0600 - 0.1600** GS: **LT-UNK** RC: **Both** NANO: **No** ROLE: **Alloying Metal**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

## CARBON

ID: 7440-44-0

#: **0.0300 - 0.2500** GS: **LT-UNK** RC: **Both** NANO: **No** ROLE: **Alloying Metal**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

## VANADIUM

ID: 7440-62-2

#: **0.0080 - 0.2000** GS: **LT-1** RC: **Both** NANO: **No** ROLE: **Alloying Metal**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
GENE MUTATION	MAK	Germ Cell Mutagen 2

SUBSTANCE NOTES:

**NIOBIUM**

ID: 7440-03-1

GS: **LT-UNK** RC: **Both** NANO: **No** ROLE: **Alloying Metal**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**TITANIUM**

ID: 7440-32-6

GS: **LT-UNK** RC: **Both** NANO: **No** ROLE: **Alloying Metal**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**SULFUR**

ID: 7704-34-9

GS: **LT-UNK** RC: **Both** NANO: **No** ROLE: **Alloying Metal**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

SUBSTANCE NOTES:

**GALVANIZATION (COATING)**

%: **0.3600 - 9.1800**

HPD URL:

PRODUCT THRESHOLD: **1000 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **No**

RESIDUALS AND IMPURITIES NOTES: All commercial galvanizing products contain small amounts of various elements in addition to those listed. These small quantities of impurities are frequently referred to as “trace” or “residual” elements that generally originate in the raw or recycled materials used. Galvanizing products may contain the following trace or residual elements including typical maximum percentages for the elements identified: lead (0.01%), iron (0.01%), cadmium (0.01%), copper (0.01%), other elements (0.01%) balance by difference.

OTHER MATERIAL NOTES: The minimum and maximum percentages vary based on the thickness of base steel ordered and the level of corrosion protection ordered. For example a G40 coating on 97-mil sheet steel would only be 0.36% of the total weight, while a G90 coating on 15-mil sheet steel would be 9.18% of the total weight. This will vary depending on customer order requirements.

**ZINC**

ID: 7440-66-6

#: 99.0000 - 99.7500

GS: LT-P1

RC: Both

NANO: No

ROLE: Corrosion Protection

HAZARDS:

AGENCY(IES) WITH 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: Corrosion Protection

### ALUMINUM

ID: 7429-90-5

#: 0.2500 - 1.0000

GS: LT-P1

RC: Both

NANO: No

ROLE: Corrosion Protection

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H228 - Flammable solid

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H250 - Catches fire spontaneously if exposed to air

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H261 - In contact with water releases flammable gases

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: Corrosion Protection

### PASSIVATION COATING

#: 0.0080 - 0.0980

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: These are highly controlled mixtures with no know impurities.

OTHER MATERIAL NOTES: Steel sheet coils are galvanized at the steel mill, and then as an industry standard an additional passivation coating, variations all commonly known as "chem treat", is applied. This is an additional corrosion protection that helps prevent the formation of zinc oxide otherwise known as "white rust". There are many variations of "chem treat" used across the industry, and due to difficulties in tracing which specific "chem treat" was used on each order all possible hazardous components are listed here.

### PHOSPHORIC ACID

ID: 7664-38-2

#: 10.0000 - 30.0000

GS: LT-P1

RC: UNK

NANO: No

ROLE: Corrosion Protection

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN IRRITATION

EU - GHS (H-Statements)

H314 - Causes severe skin burns and eye damage

SUBSTANCE NOTES: Corrosion Protection

**CHROMIUM (III) CHROMATE**

ID: 24613-89-6

%: 10.0000 - 20.0000

GS: LT-1

RC: UNK

NANO: No

ROLE: Corrosion Protection

HAZARDS:

AGENCY(IES) WITH WARNINGS:

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

EU - SVHC Authorisation List

Carcinogenic - 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

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

CANCER

EU - GHS (H-Statements)

H350 - May cause cancer

CANCER

EU - GHS (H-Statements)

H350i - May cause cancer by inhalation

CANCER

EU - REACH Annex XVII CMRs

Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man

MULTIPLE

ChemSec - SIN List

CMR - Carcinogen, Mutagen &amp;/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

Korea - GHS

Carcinogenicity - Category 1 [H350 - May cause cancer]

CANCER

EU - Annex VI CMRs

Carcinogen Category 1B - Presumed Carcinogen based on animal evidence

GENE MUTATION

MAK

Germ Cell Mutagen 2

GENE MUTATION

Australia - GHS

H340 - May cause genetic defects

CANCER

Australia - GHS

H350 - May cause cancer



## CHROMIUM (VI) OXIDE

ID: 1333-82-0

%: **7.0000 - 13.0000**      GS: **LT-1**      RC: **UNK**      NANO: **No**      ROLE: **Corrosion Protection**

HAZARDS:	AGENCY(IES) WITH 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 - Banned unless Authorised
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
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	Korea - GHS	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	New Zealand - GHS	6.6A - Known or presumed human mutagens
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
CANCER	Japan - GHS	Carcinogenicity - Category 1A
GENE MUTATION	Japan - GHS	Germ cell mutagenicity - Category 1B
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B
GENE MUTATION	MAK	Germ Cell Mutagen 2
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Corrosion Protection

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

ID: 7789-04-0

%: **1.0000 - 10.0000**      GS: **LT-P1**      RC: **UNK**      NANO: **No**      ROLE: **Corrosion Protection**

HAZARDS:      AGENCY(IES) WITH WARNINGS:

SKIN SENSITIZE      MAK      Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Corrosion Protection

### CHROMIUM FLUORIDE (CRF3)

ID: 7788-97-8

%: **1.0000 - 5.0000**      GS: **LT-P1**      RC: **UNK**      NANO: **No**      ROLE: **Corrosion Protection**

HAZARDS:      AGENCY(IES) WITH WARNINGS:

SKIN SENSITIZE      MAK      Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Corrosion Protection

**HYDROFLUORIC ACID**

ID: 7664-39-3

%: **1.0000 - 5.0000**      GS: **BM-2**      RC: **UNK**      NANO: **No**      ROLE: **Corrosion Protection**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN

EU - GHS (H-Statements)

H300 - Fatal if swallowed

MAMMALIAN

EU - GHS (H-Statements)

H310 - Fatal in contact with skin

SKIN IRRITATION

EU - GHS (H-Statements)

H314 - Causes severe skin burns and eye damage

MAMMALIAN

EU - GHS (H-Statements)

H330 - Fatal if inhaled

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

MAMMALIAN

US EPA - EPCRA Extremely Hazardous Substances

Extremely Hazardous Substances

PHYSICAL HAZARD (REACTIVE)

Korea - GHS

H290 - May be corrosive to metals

SUBSTANCE NOTES: Corrosion Protection

**CHROMIUM NITRATE**

ID: 13548-38-4

%: **1.0000 - 5.0000**      GS: **LT-P1**      RC: **UNK**      NANO: **No**      ROLE: **Corrosion Protection**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN SENSITIZE

MAK

Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Corrosion Protection

**MANGANESE, BIS(D-GLUCONATO-O1,O2)-, (T-4)-**

ID: 6485-39-8

%: **1.0000 - 10.0000**      GS: **LT-UNK**      RC: **UNK**      NANO: **No**      ROLE: **Corrosion Protection**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Corrosion Protection

**MANGANESE CITRATE**

ID: 10024-66-5

%: **1.0000 - 5.0000**      GS: **NoGS**      RC: **UNK**      NANO: **No**      ROLE: **Corrosion Protection**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Corrosion Protection

### SILICA, AMORPHOUS

ID: 7631-86-9

#: 1.0000 - 5.0000 GS: LT-P1 RC: UNK NANO: No ROLE: Corrosion Protection

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

Japan - GHS

Carcinogenicity - Category 1A

SUBSTANCE NOTES: Corrosion Protection

### NITRIC ACID

ID: 7697-37-2

#: 1.0000 - 5.0000 GS: LT-P1 RC: UNK NANO: No ROLE: Corrosion Protection

HAZARDS:

AGENCY(IES) WITH WARNINGS:

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H272 - May intensify fire; oxidiser

SKIN IRRITATION

EU - GHS (H-Statements)

H314 - Causes severe skin burns and eye damage

MAMMALIAN

US EPA - EPCRA Extremely Hazardous Substances

Extremely Hazardous Substances

PHYSICAL HAZARD (REACTIVE)

Korea - GHS

H271 - May cause fire or explosion; strong oxidizer

SUBSTANCE NOTES: Corrosion Protection

### CHROMIUM (III) OXIDE

ID: 1308-38-9

#: 0.1000 - 1.0000 GS: LT-P1 RC: UNK NANO: No ROLE: Corrosion Protection

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN SENSITIZE

MAK

Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Corrosion Protection

## 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

Inherently non- emitting source per LEED®

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2018-07-11**

EXPIRY DATE:

CERTIFIER OR LAB: **LEED**

APPLICABLE FACILITIES: **All ClarkDietrich manufacturing plants listed on the website. <https://www.clarkdietrich.com/about-us/locations>.**

CERTIFICATE URL:

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

## 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 SCREWS FOR COLD-FORMED STEEL FRAMING CONNECTIONS**

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

**Self-drilling and self-piercing screws (per ASTM C1513) are used to connect cold-formed steel framing members together in preparation to receive gypsum panel products.**

## Section 5: General Notes

ClarkDietrich Building Systems offers a comprehensive lineup of steel construction products and services across the United States and abroad. Using cold-formed steel, we manufacture innovative products for interior framing, interior finishing, exterior framing, floor and roof framing, as well as clips, connectors, metal lath, barrier mesh and accessories. As the demands for higher performance in all aspects of today's buildings rise, we partner with teams of architects, engineers, building developers and owners, contractors, and more on projects of all sizes, scope, and complexity. Far beyond products, our collaborations increasingly involve efforts and expertise that support smarter installation and design, including resources for BIM and ClarkDietrich Engineering Services LLC. Formed in 2011 through the combination of two established market leaders—ClarkWestern Building Systems and Dietrich Metal Framing—ClarkDietrich is in an unprecedented position to help you bring change to the built environment.



## MANUFACTURER INFORMATION

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MANUFACTURER: **ClarkDietrich Building Systems**  
ADDRESS: **9050 Centre Pointe Drive #400**  
**West Chester Ohio 45069, United States**  
WEBSITE: **www.clarkdietrich.com**

CONTACT NAME: **Technical Services Department**  
TITLE: **Technical Services**  
PHONE: **(888) 437-3244**  
EMAIL: **support@clarkdietrich.com**

## KEY

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**OSHA MSDS** Occupational Safety and Health Administration Material Safety Data Sheet  
**GHS SDS** Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

### Hazard Types

<b>AQU</b> Aquatic toxicity	<b>GLO</b> Global warming	<b>PHY</b> Physical Hazard (reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive toxicity
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple hazards	<b>RES</b> Respiratory sensitization
<b>END</b> Endocrine activity	<b>NEU</b> Neurotoxicity	<b>SKI</b> Skin sensitization/irritation/corrosivity
<b>EYE</b> Eye irritation/corrosivity	<b>OZO</b> Ozone depletion	<b>LAN</b> Land Toxicity
<b>GEN</b> Gene mutation	<b>PBT</b> Persistent Bioaccumulative Toxic	<b>NF</b> Not found on Priority Hazard Lists

### GreenScreen (GS)

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-P1</b> List Translator Possible Benchmark 1
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-1</b> List Translator Likely Benchmark 1
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>LT-UNK</b> List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	<b>NoGS</b> Unknown (no data on List Translator Lists)
<b>BM-U</b> Benchmark Unspecified (insufficient data to benchmark)	

### Recycled Types

**PreC** Preconsumer (Post-Industrial)  
**PostC** Postconsumer  
**Both** Both Preconsumer and Postconsumer  
**Unk** Inclusion of recycled content is unknown  
**None** Does not include recycled content

### Other Terms

#### 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 for compliance with the HPD standard noted.*