

HPD UNIQUE IDENTIFIER: 25101

CLASSIFICATION: 05 40 00 Cold-Formed Metal Framing

PRODUCT DESCRIPTION: To obtain cold-formed steel framing products with Residuals Disclosure levels of 1,000 ppm you must request PRIME 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	Threshold level	Residuals/Impurities	<i>All Substances Above the Threshold Indicated Are:</i> Characterized <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No % weight and role provided for all substances. Screened <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No All substances screened using Priority Hazard Lists with results disclosed. Identified <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No All substances disclosed by Name (Specific or Generic) and Identifier.
<input checked="" type="radio"/> Nested Materials Method	<input type="radio"/> 100 ppm	Residuals/Impurities	
<input type="radio"/> Basic Method	<input checked="" type="radio"/> 1,000 ppm	Considered in 0 of 3 Materials	
Threshold Disclosed Per	<input type="radio"/> Per GHS SDS	Explanation(s) provided for Residuals/Impurities?	
<input type="radio"/> Material	<input type="radio"/> Other	<input checked="" type="radio"/> Yes <input type="radio"/> No	

**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 **CARBON** LT-UNK **NICKEL** LT-1 | CAN | RES | MAM | MUL | SKI **COPPER** LT-P1 | AQU **PHOSPHORUS** BM-2 | MAM | PHY **CHROMIUM** LT-P1 | END | SKI | RES **MOLYBDENUM** LT-UNK **TITANIUM** LT-UNK **NIOBIUM** LT-UNK **VANADIUM** LT-1 | MUL | CAN | GEN **SULFUR** LT-UNK | SKI ] **GALVANIZATION (COATING)** [ **ZINC** LT-P1 | AQU | END | MUL | PHY **ALUMINUM** BM-1 | END | RES | PHY ] **PASSIVATION COATING** [ **CHROMIUM (III) CHROMATE** LT-1 | CAN | AQU | SKI | MUL | DEV | REP | GEN | PHY **PHOSPHORIC ACID** LT-P1 | SKI **CHROMIUM (VI) OXIDE** LT-1 | CAN | AQU | SKI | REP | MUL | MAM | RES | DEV | GEN | PHY **NITRIC ACID** LT-P1 | SKI | MAM | PHY **SILICA, AMORPHOUS** BM-1 | CAN **MANGANESE CITRATE** NoGS **MANGANESE, BIS(D-GLUCONATO-O1,O2)-, (T-4)-** LT-P1 **CHROMIUM NITRATE** LT-P1 | SKI **HYDROFLUORIC ACID** BM-1 | SKI | MAM | MUL | PHY **CHROMIUM FLUORIDE (CRF3)** LT-P1 | SKI **PHOSPHORIC ACID, CHROMIUM(3++) SALT (1:1)** LT-P1 | SKI **CHROMIUM (III) OXIDE** BM-1 | SKI ]

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

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

Nanomaterial ... No

**INVENTORY AND SCREENING NOTES:**

Per certification provided by steel mills.

**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®

**CONSISTENCY WITH OTHER PROGRAMS**

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2021-06-08

PUBLISHED DATE: 2021-06-15

EXPIRY DATE: 2024-06-08

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

### STEEL

#: 90.8200 - 99.6400

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

MATERIAL TYPE: Metal

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

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2021-06-08 6:15:37

#: 96.0200 - 97.8090

GS: LT-P1

RC: Both

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

END

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES:

### MANGANESE

ID: 7439-96-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2021-06-08 6:15:40

#: 1.1500 - 1.6500

GS: LT-P1

RC: Both

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

END

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

MUL

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

REP

GHS - Japan

Toxic to reproduction - Category 1B [H360]

SUBSTANCE NOTES:

### CARBON

ID: 7440-44-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2021-06-08 6:15:44

#: 0.2000 - 0.2500

GS: LT-UNK

RC: Both

NANO: No

SUBSTANCE ROLE: Alloy element

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

SUBSTANCE NOTES:

## NICKEL

ID: 7440-02-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-06-08 6:15:45**

#: **0.2000 - 0.3000** GS: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
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
CAN	IARC	Group 2b - Possibly carcinogenic to humans
RES	AOEC - Asthmagens	Asthmagens (Rs) - sensitizer-induced
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
MAM	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction

SUBSTANCE NOTES:

## COPPER

ID: 7440-50-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-06-08 6:15:45**

#: **0.2000 - 0.5000** GS: **LT-P1** RC: **Both** NANO: **No** SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
AQU	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects

SUBSTANCE NOTES:

## PHOSPHORUS

ID: 7723-14-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-06-08 6:15:46**

#: 0.2000 - 0.2300

GS: BM-2

RC: Both

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MAM	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
PHY	EU - GHS (H-Statements)	H228 - Flammable solid

SUBSTANCE NOTES:

### CHROMIUM

ID: 7440-47-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-08 6:15:46

#: 0.1500 - 0.3000

GS: LT-P1

RC: Both

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
RES	AOEC - Asthmagens	Asthmagens (Rs) - sensitizer-induced

SUBSTANCE NOTES:

### MOLYBDENUM

ID: 7439-98-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-08 6:15:47

#: 0.0600 - 0.1600

GS: LT-UNK

RC: Both

NANO: No

SUBSTANCE ROLE: Alloy element

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

SUBSTANCE NOTES:

### TITANIUM

ID: 7440-32-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-08 6:15:47

#: 0.0080 - 0.2000

GS: LT-UNK

RC: Both

NANO: No

SUBSTANCE ROLE: Alloy element

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

SUBSTANCE NOTES:

### NIOBIUM

ID: 7440-03-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-08 6:15:48

#: 0.0080 - 0.1500

GS: LT-UNK

RC: Both

NANO: No

SUBSTANCE ROLE: Alloy element

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

**VANADIUM**

ID: 7440-62-2

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2021-06-08 6:15:48</b>		
#: <b>0.0080 - 0.2000</b>	GS: <b>LT-1</b>	RC: <b>Both</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Alloy element</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters		
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man		
GEN	MAK	Germ Cell Mutagen 2		
SUBSTANCE NOTES:				

**SULFUR**

ID: 7704-34-9

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2021-06-08 6:15:49</b>		
#: <b>0.0070 - 0.0400</b>	GS: <b>LT-UNK</b>	RC: <b>Both</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Alloy element</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation		
SUBSTANCE NOTES:				

**GALVANIZATION (COATING)**

#: **0.3600 - 9.1800**

PRODUCT THRESHOLD: <b>1000 ppm</b>	RESIDUALS AND IMPURITIES CONSIDERED: <b>No</b>	MATERIAL TYPE: <b>Metal</b>
<p>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.</p> <p>OTHER MATERIAL NOTES: The minimum and maximum percentages vary based on the thickness of base steel ordered and the level or 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.</p>		

**ZINC**

ID: 7440-66-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-06-08 6:15:37**%: **99.0000 - 100.0000** GS: **LT-P1** RC: **Both** NANO: **No** SUBSTANCE ROLE: **Galvanizing**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
AQU	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
AQU	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
PHY	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHY	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously

SUBSTANCE NOTES: Corrosion Protection

**ALUMINUM**

ID: 7429-90-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-06-08 6:15:44**%: **0.2500 - 1.0000** GS: **BM-1** RC: **Both** NANO: **No** SUBSTANCE ROLE: **Galvanizing**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
PHY	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases
PHY	EU - GHS (H-Statements)	H228 - Flammable solid

SUBSTANCE NOTES: Corrosion Protection

**PASSIVATION COATING**%: **0.0080 - 0.0980**PRODUCT THRESHOLD: **1000 ppm** RESIDUALS AND IMPURITIES CONSIDERED: **No** MATERIAL TYPE: **Other: Chemical Compound**

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.

**CHROMIUM (III) CHROMATE**

ID: 24613-89-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-06-08 6:15:38**

%: 10.0000 - 20.0000

GS: LT-1

RC: UNK NANO: No SUBSTANCE ROLE: Corrosion inhibitor

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
AQU	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
AQU	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
CAN	EU - GHS (H-Statements)	H350 - May cause cancer
CAN	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
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
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	CA EPA - Prop 65	Carcinogen
SKI	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
DEV	CA EPA - Prop 65	Developmental toxicity
CAN	EU - SVHC Authorisation List	Carcinogenic - Candidate list
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
CAN	EU - SVHC Authorisation List	Carcinogenic - Banned unless Authorised
REP	CA EPA - Prop 65	Reproductive Toxicity - Female
REP	CA EPA - Prop 65	Reproductive Toxicity - Male
GEN	MAK	Germ Cell Mutagen 2
CAN	GHS - Australia	H350 - May cause cancer
GEN	GHS - Australia	H340 - May cause genetic defects
CAN	GHS - Korea	Carcinogenicity - Category 1 [H350 - May cause cancer]
REP	GHS - Australia	H360FD - May damage fertility. May damage the unborn child
PHY	EU - GHS (H-Statements)	H271 - May cause fire or explosion; strong oxidiser

SUBSTANCE NOTES: Corrosion Protection

**PHOSPHORIC ACID**

ID: 7664-38-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-08 6:15:38

%: 10.0000 - 30.0000

GS: LT-P1

RC: UNK NANO: No SUBSTANCE ROLE: Corrosion inhibitor



HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
SUBSTANCE NOTES: Corrosion Protection		

**CHROMIUM (VI) OXIDE**

ID: 1333-82-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-06-08 6:15:39**

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

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
AQU	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
AQU	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
CAN	EU - GHS (H-Statements)	H350 - May cause cancer
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
REP	EU - GHS (H-Statements)	H361f - Suspected of damaging fertility
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
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
MAM	EU - GHS (H-Statements)	H301 - Toxic if swallowed
MAM	EU - GHS (H-Statements)	H311 - Toxic in contact with skin
SKI	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
MAM	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
RES	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
DEV	CA EPA - Prop 65	Developmental toxicity
MAM	EU - GHS (H-Statements)	H330 - Fatal if inhaled
CAN	EU - SVHC Authorisation List	Carcinogenic - Candidate list
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
GEN	EU - GHS (H-Statements)	H340 - May cause genetic defects
CAN	EU - REACH Annex XVII CMRs	Carcinogen Category 1 - Substances known to be Carcinogenic to man

GEN	EU - REACH Annex XVII CMRs	Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man
CAN	EU - Annex VI CMRs	Carcinogen Category 1A - Known human Carcinogen based on human evidence
GEN	EU - Annex VI CMRs	Mutagen - Category 1B
CAN	EU - SVHC Authorisation List	Carcinogenic - Banned unless Authorised
REP	CA EPA - Prop 65	Reproductive Toxicity - Female
REP	CA EPA - Prop 65	Reproductive Toxicity - Male
GEN	MAK	Germ Cell Mutagen 2
GEN	EU - SVHC Authorisation List	Mutagenic - Candidate list
GEN	EU - SVHC Authorisation List	Mutagenic - Banned unless Authorised
CAN	GHS - Australia	H350 - May cause cancer
GEN	GHS - New Zealand	6.6A - Known or presumed human mutagens
CAN	GHS - New Zealand	6.7A - Known or presumed human carcinogens
REP	GHS - New Zealand	6.8A - Known or presumed human reproductive or developmental toxicants
CAN	GHS - Korea	Carcinogenicity - Category 1 [H350 - May cause cancer]
CAN	GHS - Japan	Carcinogenicity - Category 1A [H350]
REP	GHS - Japan	Toxic to reproduction - Category 1B [H360]
GEN	GHS - Japan	Germ cell mutagenicity - Category 1B [H340]
REP	GHS - Australia	H360FD - May damage fertility. May damage the unborn child
PHY	EU - GHS (H-Statements)	H271 - May cause fire or explosion; strong oxidiser

SUBSTANCE NOTES: Corrosion Protection

## NITRIC ACID

ID: 7697-37-2

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2021-06-08 6:15:43</b>	
#: <b>1.0000 - 5.0000</b>	GS: <b>LT-P1</b>	RC: <b>UNK</b>	NANO: <b>No</b> SUBSTANCE ROLE: <b>Corrosion inhibitor</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
SKI	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage	
MAM	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances	
PHY	EU - GHS (H-Statements)	H272 - May intensify fire; oxidiser	
PHY	GHS - Korea	H271 - May cause fire or explosion; strong oxidizer	

SUBSTANCE NOTES: Corrosion Protection

## SILICA, AMORPHOUS

ID: 7631-86-9

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2021-06-08 6:15:43</b>	
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#: 1.0000 - 5.0000 GS: BM-1 RC: UNK NANO: No SUBSTANCE ROLE: Corrosion inhibitor

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	GHS - Australia	H350i - May cause cancer by inhalation
CAN	GHS - Japan	Carcinogenicity - Category 1A [H350]

SUBSTANCE NOTES: Corrosion Protection

### MANGANESE CITRATE

ID: 10024-66-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-08 6:15:42

#: 1.0000 - 5.0000 GS: NoGS RC: UNK NANO: No SUBSTANCE ROLE: Corrosion inhibitor

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

SUBSTANCE NOTES: Corrosion Protection

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

ID: 6485-39-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-08 6:15:42

#: 1.0000 - 10.0000 GS: LT-P1 RC: UNK NANO: No SUBSTANCE ROLE: Corrosion inhibitor

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

SUBSTANCE NOTES: Corrosion Protection

### CHROMIUM NITRATE

ID: 13548-38-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-08 6:15:40

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

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Corrosion Protection

### HYDROFLUORIC ACID

ID: 7664-39-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-08 6:15:40

#: 1.0000 - 5.0000 GS: BM-1 RC: UNK NANO: No SUBSTANCE ROLE: Corrosion inhibitor

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
MAM	EU - GHS (H-Statements)	H330 - Fatal if inhaled
MAM	EU - GHS (H-Statements)	H300 - Fatal if swallowed
MAM	EU - GHS (H-Statements)	H310 - Fatal in contact with skin
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
MAM	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
PHY	GHS - Korea	H290 - May be corrosive to metals

SUBSTANCE NOTES: Corrosion Protection

### CHROMIUM FLUORIDE (CRF3)

ID: 7788-97-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-08 6:15:41

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

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Corrosion Protection

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

ID: 7789-04-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-08 6:15:41

#: 1.0000 - 10.0000 GS: LT-P1 RC: UNK NANO: No SUBSTANCE ROLE: Corrosion inhibitor

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Corrosion Protection

### CHROMIUM (III) OXIDE

ID: 1308-38-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-08 6:15:47

#: 0.1000 - 1.0000 GS: BM-1 RC: UNK NANO: No SUBSTANCE ROLE: Corrosion inhibitor

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	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- 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 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**

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

**CONTACT NAME:** Adam Shoemaker  
**TITLE:** Building Code Compliance Manager  
**PHONE:** (800) 976-0249  
**EMAIL:** support@clarkdietrich.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**

<b>AQU</b> Aquatic toxicity	<b>LAN</b> Land toxicity	<b>PHY</b> Physical hazard (flammable or reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple	<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>NF</b> Not found on Priority Hazard Lists	<b>UNK</b> Unknown
<b>GEN</b> Gene mutation	<b>OZO</b> Ozone depletion	
<b>GLO</b> Global warming	<b>PBT</b> Persistent, bioaccumulative, and toxic	

**GreenScreen (GS)**

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-1</b> List Translator 1 (Likely Benchmark-1)
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-UNK</b> 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.)
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	
<b>BM-U</b> Benchmark Unspecified (due to insufficient data)	
<b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1)	<b>NoGS</b> 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 HPD and for compliance with the HPD standard noted.*