

# Fire-rated Insulated Steel Access Door by LES INDUSTRIES CENDREX INC

# Health Product Declaration v2.1

CLASSIFICATION: 08 11 00

created via: HPDC Online Builder

PRODUCT DESCRIPTION: This HPD covers insulated steel access doors by Les Industries Cendrex Inc. More specifically, this HPD covers fire-rated insulated steel access door models: PFU, PFI, PFI-GYP, PFI-PLY, PFI-SS. Fire-rated access doors are designed and built to maintain the continuity of a fire barrier when installed in a vertical or horizontal separation. These doors are designed for many purposes such as residential, commercial, hospitality applications and more.

## 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 5 of 10 Materials

#### Explanation(s) provided for Residuals/Impurities?

- Yes  No

Are All Substances Above the Threshold Indicated:

**Characterized**  
Percent Weight and Role Provided?  Yes  No

**Screened**  
Using Priority Hazard Lists with Results Disclosed?  Yes  No

**Identified**  
Name and Identifier Provided?  Yes  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**

INSULATION [ FIBER GLASS, BIOINSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT >18 % BY WEIGHT (FIBER GLASS, BIOINSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT >18 % BY WEIGHT) **LT-UNK** | CAN UREA PHENOL FORMALDEHYDE (UREA PHENOL FORMALDEHYDE) **LT-UNK** FORMALDEHYDE (FORMALDEHYDE) **LT-1** | RES | CAN | MAM | SKI | GEN | MUL | END ] HARDWARE/SLAM LATCH LOCK [ STEEL **NoGS** ZINC (ZINC) **LT-P1** | AQU | END | MUL | PHY IRON (IRON) **LT-P1** | END ] POWDER COAT [ UNDISCLOSED **LT-UNK** UNDISCLOSED **LT-1** | CAN | END UNDISCLOSED **NoGS** UNDISCLOSED **LT-UNK** UNDISCLOSED **LT-UNK** UNDISCLOSED **BM-3** UNDISCLOSED **LT-UNK** CARBON BLACK (CARBON BLACK) **LT-1** | CAN FERRIC OXIDE (FERRIC OXIDE) **BM-2** | CAN ] STAINLESS STEEL [ IRON (IRON) **LT-P1** | END CHROMIUM (CHROMIUM) **LT-P1** | RES | END | SKI NICKEL (NICKEL) **LT-1** | CAN | RES | SKI | MAM | MUL SILICON (SILICON) **LT-UNK** MANGANESE (MANGANESE) **LT-P1** | END | MUL | REP MOLYBDENUM (MOLYBDENUM) **LT-UNK** TITANIUM (TITANIUM) **LT-UNK** COPPER (COPPER) **LT-UNK** COBALT (COBALT) **LT-1** | RES | CAN | SKI | MUL | GEN ] SATIN COAT STEEL [ IRON (IRON) **LT-P1** | END ZINC (ZINC) **LT-P1** | AQU | END | MUL | PHY MANGANESE (MANGANESE) **LT-P1** | END | MUL | REP CHROMIUM (CHROMIUM) **LT-P1** | RES | END | SKI NICKEL (NICKEL) **LT-1** | CAN | RES | SKI | MAM | MUL LEAD (LEAD) **LT-1** | MAM | DEL | CAN | PBT | REP | AQU | MUL | END | GEN CADMIUM (CADMIUM) **LT-1** | CAN | DEL | PBT | REP | AQU | MAM | GEN | MUL | END | PHY ] COLD ROLLED STEEL [ IRON (IRON) **LT-P1** | END MANGANESE (MANGANESE) **LT-P1** | END | MUL | REP CHROMIUM (CHROMIUM) **LT-P1** | RES | END | SKI NICKEL (NICKEL) **LT-1** | CAN | RES | SKI | MAM | MUL LEAD (LEAD) **LT-1** | MAM | DEL | CAN | PBT | REP | AQU | MUL | END | GEN CADMIUM (CADMIUM) **LT-1** | CAN | DEL | PBT | REP | AQU | MAM | GEN | MUL | END | PHY ] HARDWARE/HINGE CR [ STEEL **NoGS** ] HARDWARE/HINGE SS [ STAINLESS STEEL (STAINLESS STEEL) **NoGS** ] HARDWARE/SPRING [ IRON (IRON) **LT-P1** | END CARBON

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

1

Contents highest concern GreenScreen

Benchmark or List translator Score..... LT-1

Nanomaterial..... No

### INVENTORY AND SCREENING NOTES:

HPD prepared using a Nested Materials Inventory with a product threshold at 1,000 ppm. Cendrex's doors include a multitude of alternate steel-based materials. It was chosen in this HPD to group all steel access doors with the same function regardless of the steel used. Steel-based components are similar and the variation comes from alloying elements and/or surface treatment which both represent small quantities in the overall steel products. More details about how residuals and impurities were considered available in the appropriate sections. Special Conditions materials are present in the product: metal alloy material and reaction and polymer products. Guidelines for reporting Special Conditions materials are still under development by HPDC and the manufacturer will update the HPD accordingly once these guidelines get published.

(CARBON) [LT-UNK] MANGANESE (MANGANESE) [LT-P1] | END | MUL | REP  
SILICON (SILICON) [LT-UNK] COPPER (COPPER) [LT-UNK] CADMIUM  
(CADMIUM) [LT-1] | CAN | DEL | PBT | REP | AQU | MAM | GEN | MUL | END |  
PHY NICKEL (NICKEL) [LT-1] | CAN | RES | SKI | MAM | MUL ] CORNER  
BEAD (GYP) & PLASTER FLANGE (PLY) [ IRON (IRON) [LT-P1] | END ZINC  
(ZINC) [LT-P1] | AQU | END | MUL | PHY MANGANESE (MANGANESE) [LT-P1  
| END | MUL | REP CHROMIUM (CHROMIUM) [LT-P1] | RES | END | SKI  
NICKEL (NICKEL) [LT-1] | CAN | RES | SKI | MAM | MUL LEAD (LEAD) [LT-1] |  
MAM | DEL | CAN | PBT | REP | AQU | MUL | END | GEN CADMIUM  
(CADMIUM) [LT-1] | CAN | DEL | PBT | REP | AQU | MAM | GEN | MUL | END |  
PHY ]

### 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: CDPH Standard Method - Not tested

### CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party  
Verified?

- Yes  
 No

PREPARER: Self-Prepared  
VERIFIER:  
VERIFICATION #:

SCREENING DATE: 2018-02-27  
PUBLISHED DATE: 2018-03-20  
EXPIRY DATE: 2021-02-27

## 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)

### INSULATION

#: 7.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Formaldehyde is considered residual.

OTHER MATERIAL NOTES: The insulation is made primarily of mineral wool.

#### FIBER GLASS, BIOINSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT >18 % BY WEIGHT (FIBER GLASS, BIOINSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT >18 % BY WEIGHT)

ID: 65997-17-3

#: 94.0000 - 99.0000

GS: LT-UNK

RC:

None

NANO:

No

ROLE: Main

material

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

EU - GHS (H-Statements)

H351 - Suspected of causing cancer

SUBSTANCE NOTES: See Other Materials Notes.

#### UREA PHENOL FORMALDEHYDE (UREA PHENOL FORMALDEHYDE)

ID: 25104-55-6

#: 1.0000 - 6.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Binder element

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Other Materials Notes.

#### FORMALDEHYDE (FORMALDEHYDE)

ID: 50-00-0

#: Impurity/Residual

GS: LT-1

RC: None

NANO: No

ROLE: Impurity/Residual

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (G) - generally accepted

CANCER

US EPA - IRIS Carcinogens

(1986) Group B1 - Probable human Carcinogen

CANCER

IARC

Group 1 - Agent is Carcinogenic to humans

CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen
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)	H331 - Toxic if inhaled
GENE MUTATION	EU - GHS (H-Statements)	H341 - Suspected of causing genetic defects
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Japan - GHS	Carcinogenicity - Category 1A
CANCER	Australia - GHS	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: See Residuals and Impurities Notes.

## HARDWARE/SLAM LATCH LOCK

%: **1.0000 - 2.0000**

HPD URL:

PRODUCT THRESHOLD: **1000 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **No**

RESIDUALS AND IMPURITIES NOTES: **Information not given by manufacturer.**

OTHER MATERIAL NOTES: **Galvanized Steel lock**

## STEEL

ID: **12597-69-2**

%: **90.0000 - 100.0000**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Main element**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Other Materials Notes.

**ZINC (ZINC)**

ID: **7440-66-6**

#: **0.0000 - 9.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Galvanizing element**

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
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
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

SUBSTANCE NOTES: See Other Materials Notes.

**IRON (IRON)**

ID: **7439-89-6**

#: **0.0000 - 1.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Galvanizing element**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
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SUBSTANCE NOTES: See Other Materials Notes.

**POWDER COAT**

#: **0.5000**

HPD URL:

PRODUCT THRESHOLD: **1000 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **No**

RESIDUALS AND IMPURITIES NOTES: Information not given by manufacturer.

OTHER MATERIAL NOTES: Mixture of synthetic resins and pigments for coating door.

**UNDISCLOSED**

#: **45.0000 - 55.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Main element**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: See Other Materials Notes.

**UNDISCLOSED**

#: **35.0000 - 45.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: See Other Materials Notes.

**UNDISCLOSED**

#: **5.0000 - 7.0000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Other Materials Notes.

**UNDISCLOSED**

#: **0.1000 - 1.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Other Materials Notes.

**UNDISCLOSED**

#: **0.1000 - 0.5000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Other Materials Notes.

**UNDISCLOSED**

#: **0.0100 - 0.5000** GS: **BM-3** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARDS: AGENCY(IES) WITH WARNINGS:  
None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Other Materials Notes.

**UNDISCLOSED**

#: **0.0100 - 0.0500** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARDS: AGENCY(IES) WITH WARNINGS:  
None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Other Materials Notes.

**CARBON BLACK (CARBON BLACK)**

ID: **1333-86-4**

#: **0.0010 - 0.0100** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: See Other Materials Notes.

**FERRIC OXIDE (FERRIC OXIDE)**

ID: **1309-37-1**

#: **0.0010 - 0.0100** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
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SUBSTANCE NOTES: See Other Materials Notes.

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Information not given by manufacturer.

OTHER MATERIAL NOTES: Galvanized steel sheet panel

**IRON (IRON)**

ID: 7439-89-6

?: **68.5000 - 87.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Main element**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: See Other Materials Notes.

**CHROMIUM (CHROMIUM)**

ID: 7440-47-3

?: **11.5000 - 26.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Alloying element**

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: See Other Materials Notes.

**NICKEL (NICKEL)**

ID: 7440-02-0

?: **1.5000 - 37.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Alloying element**

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 & skin sensitization

SUBSTANCE NOTES: See Other Materials Notes.

### SILICON (SILICON)

ID: 7440-21-3

%: **0.0000 - 2.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Alloying element**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Other Materials Notes.

### MANGANESE (MANGANESE)

ID: 7439-96-5

%: **0.0000 - 2.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Alloying element**

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: See Other Materials Notes.

### MOLYBDENUM (MOLYBDENUM)

ID: 7439-98-7

%: **0.0000 - 1.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Alloying element**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Other Materials Notes.

### TITANIUM (TITANIUM)

ID: 7440-32-6

%: **0.0000 - 0.7000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Alloying element**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Other Materials Notes.

**COPPER (COPPER)**

ID: **7440-50-8**

#: **0.0000 - 0.6000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Alloying element**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Other Materials Notes.

**COBALT (COBALT)**

ID: **7440-48-4**

#: **0.0000 - 0.6000**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Alloying element**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (G) - generally accepted

CANCER

IARC

Group 2b - Possibly carcinogenic to humans

CANCER

CA EPA - Prop 65

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

RESPIRATORY

EU - GHS (H-Statements)

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 3 - Severe Hazard to Waters

CANCER

MAK

Carcinogen Group 2 - Considered to be carcinogenic for man

RESPIRATORY

MAK

Sensitizing Substance Sah - Danger of airway & skin sensitization

GENE MUTATION

MAK

Germ Cell Mutagen 3a

SUBSTANCE NOTES: See Other Materials Notes.

**SATIN COAT STEEL**

#: **0.0000 - 62.1000**

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: According to the manufacturer, Lead and Cadmium are present in trace amount, generally inferior to 1 ppm in steel products. These impurities are coming from the sourced iron ore.

OTHER MATERIAL NOTES: Satin coat steel sheet panel

### IRON (IRON)

ID: 7439-89-6

#: **88.4000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Main element**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: See Other Materials Notes.

### ZINC (ZINC)

ID: 7440-66-6

#: **8.8000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Galvanizing element**

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

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

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

SUBSTANCE NOTES: See Other Material Notes. According to the manufacturer, zinc coating weight can be up to 20w% of total steel weight. Since we do not have specific data, we are using the full range of 0.6% (15 g/m<sup>2</sup> per face) to 20% (500 g/m<sup>2</sup> per face).

### MANGANESE (MANGANESE)

ID: 7439-96-5

#: **0.0000 - 2.2250** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Alloying element**

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: See Other Materials Notes.

**CHROMIUM (CHROMIUM)**

ID: 7440-47-3

%: **0.0000 - 0.6500** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Alloying element**

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: See Other Materials Notes.

**NICKEL (NICKEL)**

ID: 7440-02-0

%: **0.0000 - 0.0250** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Alloying element**

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 & skin sensitization

SUBSTANCE NOTES: See Other Materials Notes.

**LEAD (LEAD)**

ID: 7439-92-1

%: **Impurity/Residual** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)

DEVELOPMENTAL	EU - R-phrases	R61 - May cause harm to the unborn child
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
PBT	WA DoE - PBT	PBT
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Priority PBTs (PPT)	Priority PBT
PBT	US EPA - Toxics Release Inventory PBTs	PBT
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
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
DEVELOPMENTAL	EU - GHS (H-Statements)	H360Df - May damage the unborn child. Suspected of damaging fertility
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	Korea - GHS	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants

REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A

SUBSTANCE NOTES: See Residuals and Impurities Notes.

## CADMIUM (CADMIUM)

ID: 7440-43-9

%: <b>Impurity/Residual</b>	GS: <b>LT-1</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CANCER	US EPA - IRIS Carcinogens			(1986) Group B1 - Probable human Carcinogen
CANCER	IARC			Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65			Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65			Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)			Priority PBT
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
PBT	OSPAR - Priority PBTs & EDs & equivalent concern			PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants			Priority Persistent Pollutant - Tier 1
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
MAMMALIAN	EU - GHS (H-Statements)			H330 - Fatal if inhaled
GENE MUTATION	EU - GHS (H-Statements)			H341 - Suspected of causing genetic defects
CANCER	EU - GHS (H-Statements)			H350 - May cause cancer
REPRODUCTIVE	EU - GHS (H-Statements)			H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child
ORGAN TOXICANT	EU - GHS (H-Statements)			H372 - Causes damage to organs through prolonged or repeated exposure
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 &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors			Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters			Class 3 - Severe Hazard to Waters

CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
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	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	MAK	Germ Cell Mutagen 3a
CANCER	Malaysia - GHS	H350 - May cause cancer
CANCER	Australia - GHS	H350 - May cause cancer
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air

SUBSTANCE NOTES: See Residuals and Impurities Notes.

## COLD ROLLED STEEL

%: **0.0000 - 31.8000**

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: According to the manufacturer, Lead and Cadmium are present in trace amount, generally inferior to 1 ppm in steel products. These impurities are coming from the sourced iron ore.

OTHER MATERIAL NOTES: Cold rolled Steel panel

## IRON (IRON)

ID: **7439-89-6**

%: **95.0000**      GS: **LT-P1**      RC: **None**      NANO: **No**      ROLE: **Main element**

HAZARDS:      AGENCY(IES) WITH WARNINGS:

ENDOCRINE      TEDX - Potential Endocrine Disruptors      Potential Endocrine Disruptor

SUBSTANCE NOTES: See Other Materials Notes.

## MANGANESE (MANGANESE)

ID: **7439-96-5**

%: **0.0000 - 2.2250**      GS: **LT-P1**      RC: **None**      NANO: **No**      ROLE: **Alloying element**

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: See Other Materials Notes.

**CHROMIUM (CHROMIUM)**ID: **7440-47-3**%: **0.0000 - 0.6500**GS: **LT-P1**RC: **None**NANO: **No**ROLE: **Alloying element**

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: See Other Materials Notes.

**NICKEL (NICKEL)**ID: **7440-02-0**%: **0.0000 - 0.0250**GS: **LT-1**RC: **None**NANO: **No**ROLE: **Alloying element**

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: See Other Materials Notes.



HAZARDS:	AGENCY(IES) WITH WARNINGS:	
%: <b>Impurity/Residual</b>	GS: <b>LT-1</b>	RC: <b>None</b>
		NANO: <b>No</b>
		ROLE: <b>Impurity/Residual</b>
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
DEVELOPMENTAL	EU - R-phrases	R61 - May cause harm to the unborn child
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
PBT	WA DoE - PBT	PBT
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Priority PBTs (PPT)	Priority PBT
PBT	US EPA - Toxics Release Inventory PBTs	PBT
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
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
DEVELOPMENTAL	EU - GHS (H-Statements)	H360Df - May damage the unborn child. Suspected of damaging fertility
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	Korea - GHS	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A

SUBSTANCE NOTES: See Residuals and Impurities Notes.

## CADMIUM (CADMIUM)

ID: **7440-43-9**

%: <b>Impurity/Residual</b>	GS: <b>LT-1</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CANCER	US EPA - IRIS Carcinogens			(1986) Group B1 - Probable human Carcinogen
CANCER	IARC			Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65			Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65			Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)			Priority PBT
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
PBT	OSPAR - Priority PBTs & EDs & equivalent concern			PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants			Priority Persistent Pollutant - Tier 1
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
MAMMALIAN	EU - GHS (H-Statements)			H330 - Fatal if inhaled
GENE MUTATION	EU - GHS (H-Statements)			H341 - Suspected of causing genetic defects
CANCER	EU - GHS (H-Statements)			H350 - May cause cancer
REPRODUCTIVE	EU - GHS (H-Statements)			H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child
ORGAN TOXICANT	EU - GHS (H-Statements)			H372 - Causes damage to organs through prolonged or repeated exposure

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 &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
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	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	MAK	Germ Cell Mutagen 3a
CANCER	Malaysia - GHS	H350 - May cause cancer
CANCER	Australia - GHS	H350 - May cause cancer
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air

SUBSTANCE NOTES: See Residuals and Impurities Notes.

## HARDWARE/HINGE CR

%: **0.0000 - 2.0000**

HPD URL:

PRODUCT THRESHOLD: **1000 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **No**

RESIDUALS AND IMPURITIES NOTES: Information not given by manufacturer.

OTHER MATERIAL NOTES: Hardware option

## STEEL

ID: **12597-69-2**

%: **100.0000**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Main element**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Information from manufacturer not available.

## HARDWARE/HINGE SS

%: **0.0000 - 1.5000**

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Information not given by manufacturer.

OTHER MATERIAL NOTES: Stainless Steel hardware

**STAINLESS STEEL (STAINLESS STEEL)**

ID: 12597-68-1

#: **0.0000 - 1.5000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Main material**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Other Materials Notes.

**HARDWARE/SPRING**

#: **0.0000 - 1.0000**

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: The manufacturer has to indicate the presence of the following substances having less than 0.02% of the total mass of the spring: Sulfur, Phosphorus, Molybdenum, Tin and Nitrogen.

OTHER MATERIAL NOTES: Steel carbon spring

**IRON (IRON)**

ID: 7439-89-6

#: **98.3000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Main element**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: See Other Materials Notes.

**CARBON (CARBON)**

ID: 7440-44-0

#: **0.8200** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Alloying element**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Other Materials Notes.

**MANGANESE (MANGANESE)**

ID: 7439-96-5

#: **0.5400** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Alloying element**

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: See Other Materials Notes.

### SILICON (SILICON)

ID: **7440-21-3**

%: <b>0.2000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Alloying element</b>
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: See Other Materials Notes.

### COPPER (COPPER)

ID: **7440-50-8**

%: <b>0.0500</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Alloying element</b>
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: See Other Materials Notes.

### CADMIUM (CADMIUM)

ID: **7440-43-9**

%: <b>0.0400</b>	GS: <b>LT-1</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Alloying element</b>
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CANCER	US EPA - IRIS Carcinogens	(1986) Group B1 - Probable human Carcinogen		
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans		
CANCER	CA EPA - Prop 65	Carcinogen		
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity		
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT		
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		
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action		

PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
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
MAMMALIAN	EU - GHS (H-Statements)	H330 - Fatal if inhaled
GENE MUTATION	EU - GHS (H-Statements)	H341 - Suspected of causing genetic defects
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
REPRODUCTIVE	EU - GHS (H-Statements)	H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
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 &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
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	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	MAK	Germ Cell Mutagen 3a
CANCER	Malaysia - GHS	H350 - May cause cancer
CANCER	Australia - GHS	H350 - May cause cancer
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air

SUBSTANCE NOTES: See Other Materials Notes.

## NICKEL (NICKEL)

ID: **7440-02-0**

%: **0.0200**      GS: **LT-1**      RC: **None**      NANO: **No**      ROLE: **Alloying element**

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 & skin sensitization

SUBSTANCE NOTES: See Other Materials Notes.

## CORNER BEAD (GYP) & PLASTER FLANGE (PLY)

%: **0.0000 - 2.0000**

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: According to the manufacturer, Lead and Cadmium are present in trace amount, generally inferior to 1 ppm in steel products. These impurities are coming from the sourced iron ore.

OTHER MATERIAL NOTES: Galvanized Steel component for GYP & PLY door

## IRON (IRON)

ID: **7439-89-6**

%: **77.5000 - 100.0000**      GS: **LT-P1**      RC: **None**      NANO: **No**      ROLE: **Main element**

HAZARDS:      AGENCY(IES) WITH WARNINGS:

ENDOCRINE      TEDX - Potential Endocrine Disruptors      Potential Endocrine Disruptor

SUBSTANCE NOTES: See Other Materials Notes.

## ZINC (ZINC)

ID: **7440-66-6**

%: **0.6000 - 20.0000**      GS: **LT-P1**      RC: **None**      NANO: **No**      ROLE: **Galvanizing element**

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

ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
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

SUBSTANCE NOTES: See Other Materials Notes. According to the manufacturer, zinc coating weight can be up to 20w% of total steel weight. Since we do not have specific data, we are using the full range of 0.6% (15 g/m<sup>2</sup> per face) to 20% (500 g/m<sup>2</sup> per face).

### MANGANESE (MANGANESE)

ID: **7439-96-5**

#: **0.0000 - 1.8000**      GS: **LT-P1**      RC: **None**      NANO: **No**      ROLE: **Alloying element**

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: See Other Materials Notes.

### CHROMIUM (CHROMIUM)

ID: **7440-47-3**

#: **0.0000 - 0.5000**      GS: **LT-P1**      RC: **None**      NANO: **No**      ROLE: **Alloying element**

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: See Other Materials Notes.

### NICKEL (NICKEL)

ID: **7440-02-0**

#: **0.0000 - 0.2000**      GS: **LT-1**      RC: **None**      NANO: **No**      ROLE: **Alloying element**

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 & skin sensitization

SUBSTANCE NOTES: See Other Materials Notes.

## LEAD (LEAD)

ID: 7439-92-1

%: <b>Impurity/Residual</b>	GS: <b>LT-1</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MAMMALIAN	EU - R-phrases			R20 - Harmful by Inhalation (gas or vapor or dust/mist)
DEVELOPMENTAL	EU - R-phrases			R61 - May cause harm to the unborn child
DEVELOPMENTAL	G&L - Neurotoxic Chemicals			Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens			(1986) Group B2 - Probable human Carcinogen
CANCER	IARC			Group 2a - Agent is probably Carcinogenic to humans
CANCER	IARC			Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65			Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65			Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)			Priority PBT
PBT	WA DoE - PBT			PBT
REPRODUCTIVE	CA EPA - Prop 65			Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65			Reproductive Toxicity - Male
CANCER	US NIH - Report on Carcinogens			Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Priority PBTs (PPT)			Priority PBT
PBT	US EPA - Toxics Release Inventory PBTs			PBT
PBT	OSPAR - Priority PBTs & EDs & equivalent concern			PBT - Chemical for Priority Action

PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
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
DEVELOPMENTAL	EU - GHS (H-Statements)	H360Df - May damage the unborn child. Suspected of damaging fertility
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	Korea - GHS	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A

SUBSTANCE NOTES: According to the manufacturer, Lead and Cadmium are present in trace amount, generally inferior to 1 ppm in steel products. These impurities are coming from the sourced iron ore.

## CADMIUM (CADMIUM)

ID: **7440-43-9**

%: <b>Impurity/Residual</b>	GS: <b>LT-1</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CANCER	US EPA - IRIS Carcinogens	(1986) Group B1 - Probable human Carcinogen		
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans		
CANCER	CA EPA - Prop 65	Carcinogen		
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity		
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT		

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
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
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
MAMMALIAN	EU - GHS (H-Statements)	H330 - Fatal if inhaled
GENE MUTATION	EU - GHS (H-Statements)	H341 - Suspected of causing genetic defects
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
REPRODUCTIVE	EU - GHS (H-Statements)	H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
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 &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
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	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	MAK	Germ Cell Mutagen 3a
CANCER	Malaysia - GHS	H350 - May cause cancer
CANCER	Australia - GHS	H350 - May cause cancer
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air

SUBSTANCE NOTES: According to the manufacturer, Lead and Cadmium are present in trace amount, generally inferior to 1 ppm in steel products. These impurities are coming from the sourced iron ore.

## 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	CDPH Standard Method - Not tested		
CERTIFYING PARTY: Self-declared	ISSUE DATE: 2018-02-27	EXPIRY DATE:	CERTIFIER OR LAB: None
APPLICABLE FACILITIES: -			
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.*

FASTENERS MUD TAPE PLASTER	HPD URL: No HPD available
CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: The following list of accessories & components maybe required for some listed products. Fasteners Mud Tape Plaster	

## Section 5: General Notes

## Section 6: References

MANUFACTURER INFORMATION	
MANUFACTURER: <b>LES INDUSTRIES CENDREX INC</b>	CONTACT NAME: <b>Service à la clientèle (SAC)</b>
ADDRESS: <b>11303, 26e avenue</b>	TITLE: <b>SAC</b>
<b>Montreal QC H1E 6N6, Canada</b>	PHONE: <b>514-493-1489</b>
WEBSITE: <b>www.cendrex.com/index.php</b>	EMAIL: <b>sac@cendrex.com</b>

## KEY

<b>OSHA MSDS</b>	Occupational Safety and Health Administration Material Safety Data Sheet
<b>GHS SDS</b>	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

<b>PreC</b> Preconsumer (Post-Industrial)
<b>PostC</b> Postconsumer
<b>Both</b> Both Preconsumer and Postconsumer
<b>Unk</b> Inclusion of recycled content is unknown
<b>None</b> 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

<b>Nano</b> Composed of nano scale particles or nanotechnology
<b>Third Party Verified</b> Verification by independent certifier approved by HPDC
<b>Preparer</b> Third party preparer, if not self-prepared by manufacturer
<b>Applicable facilities</b> Manufacturing sites to which testing applies

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*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.*