

CLASSIFICATION: 08 71 00

PRODUCT DESCRIPTION: CLOSERS ARE UL LISTED AND CHARACTERIZED BY: CAST ALUMINUM BODY WITH A RACK-AND-PINION DESIGN; ADJUSTABLE SPRING SIZES 1 THROUGH 6 (ADA COMPLIANT); TRI-STYLE® PACKAGED FOR REGULAR, TOP JAMB OR PARALLEL ARM MOUNTING; NON-HANDED; RACK-AND-PINION DESIGN; CAST ALUMINUM BODY; ADJUSTABLE CLOSING FORCE AND TWO CLOSING RANGES; ADJUSTABLE BACK CHECK, WHICH OFFERS OPTIMUM PROTECTION FOR DOORS AND WALLS BY DAMPED OPENING; ADJUSTABLE DELAYED CLOSING WHICH IS IMPORTANT FOR SITUATIONS WHERE EXTENDED CLOSING TIME IS NEEDED FOR PASSING THROUGH A DOOR

**Section 1: Summary**

**CONTENT INVENTORY**

Threshold per material	Residuals and impurities considered in
<input type="radio"/> 100 ppm	0 of 15 materials
<input checked="" type="radio"/> 1,000 ppm	<input checked="" type="radio"/> see Section 2: Material
<input type="radio"/> Per GHS SDS	Notes
<input type="radio"/> Per OSHA MSDS	<input type="radio"/> see Section 5: General
<input type="radio"/> Other	Notes

Based on the selected Content Inventory Threshold:

Characterized.....	<input type="radio"/> Yes <input checked="" type="radio"/> No
Are the Percent Weight and Role provided for all substances?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Screened.....	<input checked="" type="radio"/> Yes <input type="radio"/> No
Are all substances screened using Priority Hazard Lists with results disclosed?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Identified.....	<input checked="" type="radio"/> Yes <input type="radio"/> No
Are all substances disclosed by Name (Specific or Generic) and Identifier?	<input type="radio"/> Yes <input checked="" 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-UNK** MANGANESE **LT-P1** | END NICKEL **LT-1** | MAM | CAN | SKI | AQU | RES ZINC **LT-P1** | AQU | RES | PHY ] AL384 / 413 [ ALUMINUM **LT-P1** | RES | PHY | END SILICON **LT-UNK** IRON **LT-UNK** COPPER **LT-P1** NICKEL **LT-1** | MAM | CAN | SKI | AQU | RES ZINC **LT-P1** | AQU | RES | PHY MANGANESE **LT-P1** | END TIN **LT-UNK** MAGNESIUM **LT-UNK** | PHY ] A401 CHROME SILICONE WIRE [ IRON **LT-UNK** SILICON **LT-UNK** CHROMIUM **LT-UNK** | RES CARBON **LT-UNK** ] CARDBOARD [ MIXED RECYCLED PAPER ] ZINC-PLATED SCREW [ ZINC **LT-P1** | AQU | RES | PHY ] PVC SP-7107 [ POLYVINYL CHLORIDE (PVC) **LT-UNK** | RES ] CLOSER OIL [ DISTILLATES (PETROLEUM), SOLVENT-REFINED (MILD) LIGHT PARAFFINIC (9CI) **LT-1** | CAN | MUL ] AL6061-T1 ALUMINUM [ ALUMINUM **LT-P1** | RES | PHY | END MAGNESIUM **LT-UNK** | PHY SILICON **LT-UNK** TITANIUM **LT-UNK** ZINC **LT-P1** | AQU | RES | PHY COPPER **LT-P1** IRON **LT-UNK** CHROMIUM **LT-UNK** | RES MANGANESE **LT-P1** | END ] POWDER COAT [ LIMESTONE; CALCIUM CARBONATE **LT-UNK** ALUMINUM OXIDE **LT-UNK** | RES TITANIUM OXIDE **LT-UNK** ALUMINUM **LT-P1** | RES | PHY | END ] SINTERED IRON MPIF F-008-K32 [ IRON SINTER **LT-UNK** ] C36000 HALF HARD BRASS [ COPPER **LT-P1** ZINC **LT-P1** | AQU | RES | PHY LEAD **LT-1** | MAM | AQU | DEV | REP | CAN | PBT | MUL | END IRON **LT-UNK** ] PAPER [ MIXED RECYCLED PAPER ] NITRILE RUBBER [ NITRILES, C14-18 **LT-P1** | MUL ] LOCTITE 2047 SEALANT [ (1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXY-2,1-ETHANEDIYL) BISMETHACRYLATE **LT-UNK** | SKI ] 1,2-PROPANEDIOL, 2-METHYL, MONOMETHACRYLATE **LT-UNK** POLYTETRAFLUOROETHYLENE **LT-UNK** CUMENE HYDROPEROXIDE **LT-P1** | MAM | SKI | AQU | PHY | MUL FUMED SILICA, CRYSTALLINE-FREE **LT-UNK** CUMENE **LT-1** | AQU | CAN | MAM | END PHENYLHYDRAZINE **LT-1** | MAM | EYE | SKI | CAN | AQU | GEN | MUL ] MYLAR [ POLYETHYLENE TEREPHTHALATE (PET) **LT-UNK** ]

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:**

Residuals not considered as impacts are not considered to be significant

**VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

**CERTIFICATIONS AND COMPLIANCE**

VOC Content data is not applicable for this product category.

Self-Published\* VERIFIER: SCREENING DATE: May 11, 2016 EXPIRY DATE\*: May 11, 2019  
 Third Party Verified VERIFICATION #: RELEASE DATE: May 11, 2016 \* or within 3 months of significant change in product contents

\*See HPDC website for details

## Section 2: Content in Descending Order of Quantity

**Steel**

**%: 39.16 - 39.16**

**HPD URL:**

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes: Material found in the following components: C1018 steel; C1020 steel; C1006 steel; Grade 50 chrome steel; low carbon steel; steel bearing; C1074 steel; 12L14 steel; heat treated C1045; C1095 spring steel; and 1214 steel

**IRON**

**ID: 7439-89-6**

%: 95.00 - 95.00 GS: LT-UNK RC: None NANO: NO ROLE: Iron

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Structural Component

**Manganese**

**ID: 7439-96-5**

%: 2.00 - 2.00 GS: LT-P1 RC: None NANO: NO ROLE: Manganese

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

SUBSTANCE NOTES: Structural Component

**Nickel**

**ID: 7440-02-0**

%: 0.20 - 0.20 GS: LT-1 RC: None NANO: NO ROLE: Nickel

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases	R52 - Harmful to Aquatic Organisms
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 IRRITATION	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
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: Structural Component

**ZINC**

**ID: 7440-66-6**

%: 0.15 - 9.10 GS: LT-P1 RC: None NANO: NO ROLE: Zinc

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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

SUBSTANCE NOTES: Structural Component

**AL384 / 413**

**%: 14.76 - 14.76**

**HPD URL:**

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

**ALUMINUM**

**ID: 7429-90-5**

%: 76.05 - 85.70 GS: LT-P1 RC: None NANO: NO ROLE: ALUMINUM

**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























SUBSTANCE NOTES: Various Components

**Silicon**

**ID: 7440-21-3**

%: 10.50 - 13.00 GS: LT-UNK RC: None NANO: NO ROLE: Silicon

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Assembly Component

**IRON**

**ID: 7439-89-6**

%: 1.20 - 2.00 GS: LT-UNK RC: None NANO: NO ROLE: IRON

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

**COPPER**

**ID: 7440-50-8**

%: 1.00 - 4.50 GS: LT-P1 RC: None NANO: NO ROLE: COPPER

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

**Nickel**

**ID: 7440-02-0**

%: 0.50 - 0.50 GS: LT-1 RC: None NANO: NO ROLE: Nickel

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases	R52 - Harmful to Aquatic Organisms
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 IRRITATION	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
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: Various Components

**ZINC**

**ID: 7440-66-6**

%: 0.50 - 3.00 GS: LT-P1 RC: None NANO: NO ROLE: ZINC

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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
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
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
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: Various Components

**Manganese**

**ID: 7439-96-5**

%: 0.35 - 0.50 GS: LT-P1 RC: None NANO: NO ROLE: Manganese

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

SUBSTANCE NOTES: Various Components

**TIN**

**ID: 7440-31-5**

%: 0.15 - 0.35 GS: LT-UNK RC: None NANO: NO ROLE: TIN

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

**MAGNESIUM**

**ID: 7439-95-4**

%: 0.10 - 0.10 GS: LT-UNK RC: None NANO: NO ROLE: MAGNESIUM

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

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

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: Various Components

**A401 Chrome Silicone Wire**

**%: 11.83 - 11.83**

**HPD URL:**

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

**IRON**

**ID: 7439-89-6**

%: 97.40 - 97.40 GS: LT-UNK RC: None NANO: NO ROLE: IRON

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Wiring Components

**Silicon**

**ID: 7440-21-3**

%: 1.35 - 1.35 GS: LT-UNK RC: None NANO: NO ROLE: Silicon

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Wiring Components

**Chromium**

**ID: 7440-47-3**

%: 0.70 - 0.70 GS: LT-UNK RC: None NANO: NO ROLE: Chromium

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

RESPIRATORY AOEC - Asthmagens

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

SUBSTANCE NOTES: Wiring Component

**Carbon**

**ID: 7440-44-0**

%: 0.55 - 0.55 GS: LT-UNK RC: None NANO: NO ROLE: Carbon

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Wiring Component

**Cardboard**

**%: 9.30 - 9.30**

**HPD URL:**

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

**Mixed recycled paper**

**ID:**

%: 100.00 - 100.00 GS: RC: None NANO: NO ROLE: Mixed recycled paper

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Cardboard Component

**Zinc-Plated Screw**

**%: 7.42 - 7.42**

**HPD URL:**

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

**ZINC**

**ID: 7440-66-6**

%: 100.00 - 100.00 GS: LT-P1 RC: None NANO: NO ROLE: ZINC

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

ACUTE AQUATIC

EU - R-phrases

R50 - Very Toxic to Aquatic Organisms

RESPIRATORY

AOEC - Asthmagens

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

ACUTE AQUATIC

EU - GHS (H-Statements)

H400 - Very toxic to aquatic life

**PVC SP-7107**

%: 6.88 - 6.88

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

**POLYVINYL CHLORIDE (PVC)**

ID: 9002-86-2

%: 100.00 - 100.00 GS: LT-UNK RC: None NANO: NO ROLE: POLYVINYL CHLORIDE (PVC)

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

RESPIRATORY AOEC - Asthmagens Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Wiring Component

**Closer Oil**

%: 5.56 - 5.56

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

**DISTILLATES (PETROLEUM), SOLVENT-REFINED (MILD) LIGHT PARAFFINIC (9CI)**

ID: 64741-89-5

%: 100.00 - 100.00 GS: LT-1 RC: None NANO: NO ROLE: DISTILLATES (PETROLEUM), SOLVENT-REFINED (MILD) LIGHT PARAFFINIC (9CI)

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

CANCER EU - R-phrases R45 - May cause cancer  
CANCER EU - GHS (H-Statements) H350 - May cause cancer  
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  
CANCER EU - Annex VI CMRs Carcinogen Category 1B - Presumed Carcinogen based on animal evidence

SUBSTANCE NOTES: Closer Oil Component

**AL6061-T1 Aluminum**

%: 3.24 - 3.24

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

**ALUMINUM**

ID: 7429-90-5

%: 97.40 - 97.40 GS: LT-P1 RC: None NANO: NO ROLE: ALUMINUM

**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  
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  
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

SUBSTANCE NOTES: Various Components

**MAGNESIUM**

ID: 7439-95-4

%: 0.80 - 0.80 GS: LT-UNK RC: None NANO: NO ROLE: MAGNESIUM

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

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  
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: Various Components

**Silicon**

ID: 7440-21-3

%: 0.63 - 0.63 GS: LT-UNK RC: None NANO: NO ROLE: Silicon

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

**TITANIUM**

**ID: 7440-32-6**

%: 0.25 - 0.25 GS: LT-UNK RC: None NANO: NO ROLE: TITANIUM

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

**ZINC**

**ID: 7440-66-6**

%: 0.25 - 0.25 GS: LT-P1 RC: None NANO: NO ROLE: ZINC

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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
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PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
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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: Various Components

**COPPER**

**ID: 7440-50-8**

%: 0.24 - 0.24 GS: LT-P1 RC: None NANO: NO ROLE: COPPER

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

**IRON**

**ID: 7439-89-6**

%: 0.20 - 0.20 GS: LT-UNK RC: None NANO: NO ROLE: IRON

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

**Chromium**

**ID: 7440-47-3**

%: 0.19 - 0.19 GS: LT-UNK RC: None NANO: NO ROLE: Chromium

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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SUBSTANCE NOTES: Various Components

**Manganese**

**ID: 7439-96-5**

%: 0.10 - 0.10 GS: LT-P1 RC: None NANO: NO ROLE: Manganese

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

SUBSTANCE NOTES: Various Components

**Powder Coat**

**%: 0.71 - 0.71**

**HPD URL:**

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

**LIMESTONE; CALCIUM CARBONATE**

**ID: 1317-65-3**

%: 85.00 - 90.00 GS: LT-UNK RC: None NANO: NO ROLE: LIMESTONE; CALCIUM CARBONATE

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Powder Coat Component

**ALUMINUM OXIDE**

**ID: 1344-28-1**

%: 5.00 - 5.00 GS: LT-UNK RC: None NANO: NO ROLE: ALUMINUM OXIDE

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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SUBSTANCE NOTES: Powder Coat Component

**Titanium oxide**

**ID: 51745-87-0**

%: 5.00 - 5.00 GS: LT-UNK RC: None NANO: NO ROLE: Titanium oxide

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Powder Coat Component

**ALUMINUM**

**ID: 7429-90-5**

%: 2.65 - 2.65 GS: LT-P1 RC: None NANO: NO ROLE: ALUMINUM

**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
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
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

SUBSTANCE NOTES: Powder Coat Component

**Sintered iron MPIF F-008-K32**

**%: 0.40 - 0.40**

**HPD URL:**

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

**Iron sinter**

**ID: 65996-66-9**

%: 100.00 - 100.00 GS: LT-UNK RC: None NANO: NO ROLE: Iron sinter

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Iron Component

**C36000 Half Hard Brass**

**%: 0.36 - 0.36**

**HPD URL:**

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

**COPPER**

**ID: 7440-50-8**

%: 62.00 - 62.00 GS: LT-P1 RC: None NANO: NO ROLE: COPPER

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Various Components

**ZINC**

**ID: 7440-66-6**

%: 35.00 - 35.00 GS: LT-P1 RC: None NANO: NO ROLE: ZINC

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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
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
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
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: Various Components

**LEAD**

**ID: 7439-92-1**

%: 3.00 - 3.00

GS: LT-1

RC: None

NANO: NO

ROLE: LEAD

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
DEVELOPMENTAL	EU - R-phrases	R61 - May cause harm to the unborn child
REPRODUCTIVE	EU - R-phrases	R62 - Possible risk of impaired fertility
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	Developmental Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Developmental 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 - 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
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A

SUBSTANCE NOTES: Ball- Closer Assembly Component

**IRON**

**ID: 7439-89-6**

%: 0.00 GS: LT-UNK RC: None NANO: NO ROLE: IRON

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Ball for Closer Assembly Component

**Paper**

**%: 0.30 - 0.30**

**HPD URL:**

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

**Mixed recycled paper**

**ID:**

%: 100.00 - 100.00 GS: RC: None NANO: NO ROLE: Mixed recycled paper

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Label Component

**Nitrile Rubber**

**%: 0.06 - 0.06**

**HPD URL:**

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

**nitriles, C14-18**

**ID: 68002-66-4**

%: 100.00 - 100.00 GS: LT-P1 RC: None NANO: NO ROLE: nitriles, C14-18

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

MULTIPLE German FEA - Substances Hazardous to Class 2 - Hazard to

**Loctite 2047 Sealant**

**%: 0.03 - 0.03**

**HPD URL:**

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

**(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate**

**ID: 24448-20-2**

%: 60.00 - 100.00

GS: LT-UNK

RC: None NANO: NO

ROLE: (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

SKIN SENSITIZE MAK

Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Sealant Component

**1,2-PROPANEDIOL, 2-METHYL, MONOMETHACRYLATE**

**ID: 27813-02-1**

%: 1.00 - 5.00

GS: LT-UNK

RC: None NANO: NO

ROLE: 1,2-PROPANEDIOL, 2-METHYL, MONOMETHACRYLATE

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Sealant Component

**POLYTETRAFLUOROETHYLENE**

**ID: 9002-84-0**

%: 1.00 - 5.00

GS: LT-UNK

RC: None NANO: NO ROLE: POLYTETRAFLUOROETHYLENE

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Sealant Component

**CUMENE HYDROPEROXIDE**

**ID: 80-15-9**

%: 1.00 - 5.00

GS: LT-P1

RC: None

NANO: NO

ROLE: CUMENE HYDROPEROXIDE

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

MAMMALIAN

EU - R-phrases

R20 - Harmful by Inhalation (gas or vapor or dust/mist)

MAMMALIAN

EU - R-phrases

R21 - Harmful in Contact with Skin

MAMMALIAN

EU - R-phrases

R22 - Harmful if Swallowed

MAMMALIAN

EU - R-phrases

R23 - Toxic by Inhalation (gas, vapour, dust/mist)

SKIN IRRITATION

EU - R-phrases

R34 - Causes burns

ORGAN TOXICANT

EU - R-phrases

R48: Danger of serious damage to health by prolonged exposure.

ACUTE AQUATIC

EU - R-phrases

R51 - Toxic to Aquatic Organisms

CHRON AQUATIC

EU - GHS (H-Statements)

H411 - Toxic to aquatic life with long lasting effects

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H242 - Heating may cause a fire

SKIN IRRITATION

EU - GHS (H-Statements)

H314 - Causes severe skin burns and eye damage

MAMMALIAN

EU - GHS (H-Statements)

H331 - Toxic if inhaled

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES: Sealant Component

**FUMED SILICA, CRYSTALLINE-FREE**

**ID: 112945-52-5**

%: 1.00 - 5.00

GS: LT-UNK

RC: None NANO: NO ROLE: FUMED SILICA, CRYSTALLINE-FREE

**HAZARDS: AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Sealant Component

**CUMENE**

**ID: 98-82-8**

%: 0.10 - 1.00

GS: LT-1

RC: None

NANO: NO

ROLE: CUMENE

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

ACUTE AQUATIC

EU - R-phrases

R51 - Toxic to Aquatic Organisms

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

CHRON AQUATIC

EU - GHS (H-Statements)

H411 - Toxic to aquatic life with long lasting effects

MAMMALIAN

EU - GHS (H-Statements)

H304: May be fatal if swallowed and enters airways

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Sealant Component

**PHENYLHYDRAZINE**

**ID: 100-63-0**

%: 0.10 - 1.00

GS: LT-1

RC: None

NANO: NO

ROLE: PHENYLHYDRAZINE

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

MAMMALIAN

EU - R-phrases

R23 - Toxic by Inhalation (gas, vapour, dust/mist)

MAMMALIAN

EU - R-phrases

R24 - Toxic in Contact with Skin

MAMMALIAN

EU - R-phrases

R25 - Toxic if Swallowed

EYE IRRITATION

EU - R-phrases

R36 - Irritating to eyes

SKIN IRRITATION

EU - R-phrases

R38 - Irritating to skin

SKIN SENSITIZE

EU - R-phrases

R43 - May cause sensitization by skin contact



### MANUFACTURER INFORMATION

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### KEY

**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

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

#### GreenScreen (GS)

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

**Nano** Composed of nanoscale particles or nanotechnology

#### Declaration Level

**Self-declared** Manufacturer's self-declaration (First Party)  
**Independent Lab** Manufacturer's self-declaration using results from an independent lab  
**Second Party** Verification by trade association or other interested party  
**Third Party** Verification by independent certifier  
**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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

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

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.