

**HPD UNIQUE IDENTIFIER:** 884699136

**CLASSIFICATION:** 08 71 00 Door Hardware

**PRODUCT DESCRIPTION:** The heavy-duty 2030 Series Pacer® closers are designed for concealment in a narrow minimum 1-3/4" aluminum transom, meeting ANSI/BHMA A156.4 Grade 1 and the American Disabilities Act (ADA) reduced opening force requirements. A forged steel single-lever arm and and roller assembly for the 2030 Series provide smooth, quiet door control, with separate regulation of general closing speed and latching speed. 2030 Series is UL and cUL listed for self-closing doors without hold-open and carry a 15-year limited warranty.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

| Inventory Reporting Format                    | Threshold Level                          | Residuals/Impurities Evaluation                               |                                                                                    |
|-----------------------------------------------|------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------|
| <input type="radio"/> Nested Materials Method | <input checked="" type="radio"/> 100 ppm | <input checked="" type="radio"/> Completed                    | For all contents above the threshold, the manufacturer has:                        |
| <input checked="" type="radio"/> Basic Method | <input type="radio"/> 1,000 ppm          | <input type="radio"/> Partially Completed                     | <b>Characterized</b> <input checked="" type="radio"/> Yes <input type="radio"/> No |
|                                               | <input type="radio"/> Per GHS SDS        | <input type="radio"/> Not Completed                           | Provided weight and role.                                                          |
| <b>Threshold Disclosed Per</b>                | <input type="radio"/> Other              | <b>Explanation(s) provided :</b>                              | <b>Screened</b> <input checked="" type="radio"/> Yes <input type="radio"/> No      |
| <input type="radio"/> Material                |                                          | <input checked="" type="radio"/> Yes <input type="radio"/> No | Provided screening results using HPDC-approved methods.                            |
| <input checked="" type="radio"/> Product      |                                          |                                                               | <b>Identified</b> <input type="radio"/> Yes <input checked="" type="radio"/> No    |
|                                               |                                          |                                                               | Provided name and CAS RN or other identifier.                                      |

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

**PRODUCT | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE**

**LCN 2030 DOOR CLOSERS [ UNS G10440 STEEL ALLOY UNS A96063 ALUMINUM ALLOY UNS G10200 STEEL ALLOY UNS G92540 STEEL ALLOY DISTILLATES (PETROLEUM), HYDROTREATED (MILD) LIGHT NAPHTHENIC (9CI) LT-1 | CAN | MUL | SKI | DEV UNDISCLOSED LT-P1 UNS G41400 STEEL ALLOY UNS G12150 STEEL ALLOY CARBON BLACK BM-1 | CAN | EYE | MAM | PHY CLAY TREATED PARAFFIN WAX LT-UNK 1,3-BUTADIENE, POLYMER WITH 2-PROPENENITRILE LT-UNK CARBONIC DICHLORIDE, POLYMER WITH 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL] LT-UNK STODDARD SOLVENT LT-1 | CAN | MUL | GEN | MAM | SKI | AQU UNS G10080-10100 STEEL ALLOY UNS A92011 ALUMINUM ALLOY AISI 4135 STEEL AISI 52100 ALLOY STEEL UNS S41000 STEEL ALLOY UNS G40370 STEEL ALLOY UNS G10180 STEEL ALLOY FX-2008-60 COPPER-INFILTRATED STEEL POWDER UNS G12144 STEEL ALLOY UNS G10080 STEEL ALLOY UNS G10100-10220 STEEL ALLOY ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE) BM-2 | END | SKI | EYE | MAM | REP BENZENESULFONIC ACID, DI-C10-18-ALKYL DERIVS., BARIUM SALTS NoGS 2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE LT-UNK GRAPHITE LT-UNK BENZENESULFONIC ACID, DI-C10-18-ALKYL DERIVS., BARIUM SALTS NoGS ETHYLENE GLYCOL MONO-N-BUTYL ETHER BM-2 | END | SKI | EYE | MAM | REP SOLVENT NAPHTHA (PETROLEUM), HEAVY ALIPHATIC LT-UNK | MAM ACETYLTRIBUTYL CITRATE BM-3 | MUL | AQU C13-14 ISOPARAFFIN BM-2 | CAN | AQU | MAM ZINC (POWDER/DUST) STABILISED LT-P1 | END | MUL | AQU | PHY KAOLIN LT-UNK | CAN 2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE LT-UNK HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES (MINERAL OIL) LT-1 | CAN | MUL | SKI | DEV UNS K08500 STEEL ALLOY UNS G10350-10380 CARBON STEEL ALLOY UNS C22000 BRONZE ALLOY ]**

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-1, LT-P1, BM-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special Conditions applied: [MetalAlloy]

One CAS number is not identified. However, the chemical has been characterized and screened.

**CONSISTENCY WITH OTHER PROGRAMS**

Pre-checked for LEED v4 Option 1.

Pre-checked for LEED v4.1 Option 1.

Third Party Verified?

- ☐ Yes
- ☒ No

PREPARER: Self-Prepared  
VERIFIER:  
VERIFICATION #:

SCREENING DATE: 2025-07-25  
PUBLISHED DATE: 2025-07-25  
EXPIRY DATE: 2028-07-25

## 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 2.3, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-3-standard](http://www.hpd-collaborative.org/hpd-2-3-standard)

### LCN 2030 DOOR CLOSERS

PRODUCT THRESHOLD: 100 ppm      RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were collected for all raw materials included in this product. All chemicals that fall above the stated threshold are included in this section.

OTHER PRODUCT NOTES:

UNS G10440 STEEL ALLOY

ID: UNS G10440

HAZARD DATA SOURCE: 3E Exchange Chemical Hazard Screening Library

%: 40.0000 - 50.0000      GreenScreen: See notes      RC: None      NANO: No      MATERIAL ROLE: Structure component

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|----------|
|-------------|------------------------|----------|

Hazard Screening is not applicable to this Special Condition

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS G10440](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

UNS A96063 ALUMINUM ALLOY

ID: UNS A96063

HAZARD DATA SOURCE: 3E Exchange Chemical Hazard Screening Library

%: 15.0000 - 20.0000      GreenScreen: See notes      RC: None      NANO: No      MATERIAL ROLE: Structure component

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|----------|
|-------------|------------------------|----------|

Hazard Screening is not applicable to this Special Condition

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS A96063](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: Aluminum (Al) - BM-1

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

UNS G10200 STEEL ALLOY

ID: **UNS G10200**

HAZARD DATA SOURCE: **3E Exchange Chemical Hazard Screening Library**

%: **5.0000 - 10.0000** GreenScreen: **See notes** RC: **None** NANO: **No** MATERIAL ROLE: **Structure component**

| HAZARD TYPE                                                  | AGENCY AND LIST TITLES | WARNINGS |
|--------------------------------------------------------------|------------------------|----------|
| Hazard Screening is not applicable to this Special Condition |                        |          |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS G10200](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

UNS G92540 STEEL ALLOY

ID: **UNS G92540**

HAZARD DATA SOURCE: **3E Exchange Chemical Hazard Screening Library**

%: **5.0000 - 10.0000** GreenScreen: **See notes** RC: **None** NANO: **No** MATERIAL ROLE: **Structure component**

| HAZARD TYPE                                                  | AGENCY AND LIST TITLES | WARNINGS |
|--------------------------------------------------------------|------------------------|----------|
| Hazard Screening is not applicable to this Special Condition |                        |          |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS G92540](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

DISTILLATES (PETROLEUM), HYDROTREATED (MILD) LIGHT NAPHTHENIC (9CI)

ID: 64742-53-6

|                                                                  |                                             |                 |                                                                                     |                                  |
|------------------------------------------------------------------|---------------------------------------------|-----------------|-------------------------------------------------------------------------------------|----------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                             |                 | HAZARD SCREENING DATE: <b>2025-07-25 8:33:13</b>                                    |                                  |
| %: <b>3.0000 - 7.0000</b>                                        | GreenScreen: <b>LT-1</b>                    | RC: <b>None</b> | NANO: <b>No</b>                                                                     | SUBSTANCE ROLE: <b>Lubricant</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE                        |                 | WARNINGS                                                                            |                                  |
| CAN                                                              | EU - Annex VI CMRs                          |                 | Carcinogen Category 1B - Presumed Carcinogen based on animal evidence               |                                  |
| MUL                                                              | ChemSec - SIN List                          |                 | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant                                |                                  |
| MUL                                                              | German FEA - Substances Hazardous to Waters |                 | Class 2 - Hazard to Waters                                                          |                                  |
| CAN                                                              | GHS - Australia                             |                 | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]                       |                                  |
| CAN                                                              | EU - GHS (H-Statements) Annex 6 Table 3-1   |                 | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]                       |                                  |
| SKI                                                              | GHS - Australia                             |                 | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]              |                                  |
| SKI                                                              | GHS - Japan                                 |                 | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]            |                                  |
| DEV                                                              | GHS - Australia                             |                 | H361d - Suspected of damaging the unborn child [Reproductive toxicity - Category 2] |                                  |
| CAN                                                              | EU - REACH Annex XVII CMRs                  |                 | Carcinogens: Category 1B                                                            |                                  |

| ADDITIONAL LISTINGS                                                                        | LIST NAME AND SOURCE                                     | NOTIFICATION                                                                                                                      |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST                                                                            | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products          |
| RESTRICTED LIST                                                                            | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Formulated Consumer Products |
| RESTRICTED LIST                                                                            | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>All Products                            |
| RESTRICTED LIST                                                                            | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>Cosmetics and Personal Care Products    |
| SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation. |                                                          |                                                                                                                                   |

UNDISCLOSED

ID: **Undisclosed**

|                                                                                            |                           |                 |                                                            |                                        |
|--------------------------------------------------------------------------------------------|---------------------------|-----------------|------------------------------------------------------------|----------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b>                           |                           |                 | HAZARD SCREENING DATE: <b>2025-07-25 8:33:13</b>           |                                        |
| %: <b>2.0000 - 5.0000</b>                                                                  | GreenScreen: <b>LT-P1</b> | RC: <b>None</b> | NANO: <b>No</b>                                            | SUBSTANCE ROLE: <b>Hydraulic fluid</b> |
| HAZARD TYPE                                                                                | LIST NAME AND SOURCE      |                 | WARNINGS                                                   |                                        |
| None found                                                                                 |                           |                 | No warnings found on HPD Priority Hazard Lists             |                                        |
| ADDITIONAL LISTINGS                                                                        | LIST NAME AND SOURCE      |                 | NOTIFICATION                                               |                                        |
| RESTRICTED LIST                                                                            | Perkins+Will (P+W)        |                 | P&W - Precautionary List                                   |                                        |
|                                                                                            |                           |                 | Precautionary list of substances recommended for avoidance |                                        |
| SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation. |                           |                 |                                                            |                                        |

UNS G41400 STEEL ALLOY

ID: **UNS G41400**

|                                                                   |                        |          |          |                                    |
|-------------------------------------------------------------------|------------------------|----------|----------|------------------------------------|
| HAZARD DATA SOURCE: 3E Exchange Chemical Hazard Screening Library |                        |          |          |                                    |
| %: 2.0000 - 5.0000                                                | GreenScreen: See notes | RC: None | NANO: No | MATERIAL ROLE: Structure component |
| HAZARD TYPE                                                       | AGENCY AND LIST TITLES | WARNINGS |          |                                    |
| Hazard Screening is not applicable to this Special Condition      |                        |          |          |                                    |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS G41400](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

UNS G12150 STEEL ALLOY

ID: **UNS G12150**

HAZARD DATA SOURCE: **3E Exchange Chemical Hazard Screening Library**

%: **2.0000 - 5.0000**      GreenScreen: **See notes**      RC: **None**    NANO: **No**    MATERIAL ROLE: **Structure component**

| HAZARD TYPE                                                  | AGENCY AND LIST TITLES | WARNINGS |
|--------------------------------------------------------------|------------------------|----------|
| Hazard Screening is not applicable to this Special Condition |                        |          |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS G12150](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

CARBON BLACK

ID: **1333-86-4**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2025-07-25 8:33:13**

%: **0.0000 - 1.0000**      GreenScreen: **BM-1**      RC: **None**    NANO: **No**    SUBSTANCE ROLE: **Pigment**

| HAZARD TYPE                                                                                | LIST NAME AND SOURCE              | WARNINGS                                                                                                                                                  |
|--------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAN                                                                                        | US CDC - Occupational Carcinogens | Occupational Carcinogen                                                                                                                                   |
| CAN                                                                                        | MAK                               | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification                                                              |
| CAN                                                                                        | CA EPA - Prop 65                  | Carcinogen - specific to chemical form or exposure route                                                                                                  |
| CAN                                                                                        | IARC                              | Group 2b - Possibly carcinogenic to humans                                                                                                                |
| EYE                                                                                        | GHS - New Zealand                 | Eye irritation category 2                                                                                                                                 |
| CAN                                                                                        | GHS - New Zealand                 | Carcinogenicity category 2                                                                                                                                |
| CAN                                                                                        | GHS - Japan                       | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]                                                                                         |
| MAM                                                                                        | GHS - Japan                       | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| PHY                                                                                        | GHS - Japan                       | H251 - Self-heating;; may catch fire [Self-heating substances and mixtures - Category 1]                                                                  |
| ADDITIONAL LISTINGS                                                                        | LIST NAME AND SOURCE              | NOTIFICATION                                                                                                                                              |
| None found                                                                                 |                                   | No listings found on Additional Hazard Lists                                                                                                              |
| SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation. |                                   |                                                                                                                                                           |

CLAY TREATED PARAFFIN WAX

ID: 64742-43-4

|                                                                                                    |                            |                                                |                                                  |                                  |
|----------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------|--------------------------------------------------|----------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b>                                   |                            |                                                | HAZARD SCREENING DATE: <b>2025-07-25 8:33:14</b> |                                  |
| %: <b>0.0000 - 1.0000</b>                                                                          | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b>                                | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Lubricant</b> |
| HAZARD TYPE                                                                                        | LIST NAME AND SOURCE       | WARNINGS                                       |                                                  |                                  |
| None found                                                                                         |                            | No warnings found on HPD Priority Hazard Lists |                                                  |                                  |
| ADDITIONAL LISTINGS                                                                                | LIST NAME AND SOURCE       | NOTIFICATION                                   |                                                  |                                  |
| None found                                                                                         |                            | No listings found on Additional Hazard Lists   |                                                  |                                  |
| SUBSTANCE NOTES: A range is given to protect the proprietary nature of the supplier's formulation. |                            |                                                |                                                  |                                  |

1,3-BUTADIENE, POLYMER WITH 2-PROPENENITRILE

ID: 9003-18-3

|                                                           |                      |                                                |          |                                 |
|-----------------------------------------------------------|----------------------|------------------------------------------------|----------|---------------------------------|
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                      | HAZARD SCREENING DATE: 2025-07-25 8:33:14      |          |                                 |
| %: 0.0000 - 1.0000                                        | GreenScreen: LT-UNK  | RC: None                                       | NANO: No | SUBSTANCE ROLE: Polymer species |
| HAZARD TYPE                                               | LIST NAME AND SOURCE | WARNINGS                                       |          |                                 |
| None found                                                |                      | No warnings found on HPD Priority Hazard Lists |          |                                 |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                 |
|---------------------|----------------------|----------------------------------------------|
| None found          |                      | No listings found on Additional Hazard Lists |

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation.

CARBONIC DICHLORIDE, POLYMER WITH 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL]

ID: 25971-63-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2025-07-25 8:33:14

%: 0.0000 - 1.0000

GreenScreen: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Polymer species

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS                                       |
|-------------|----------------------|------------------------------------------------|
| None found  |                      | No warnings found on HPD Priority Hazard Lists |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION |
|---------------------|----------------------|--------------|
|---------------------|----------------------|--------------|

|                 |                                                          |                                                                                               |
|-----------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| RESTRICTED LIST | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 |
|                 |                                                          | Core Restrictions                                                                             |

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation.

STODDARD SOLVENT

ID: 8052-41-3

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2025-07-25 8:33:14

%: 0.0000 - 1.0000

GreenScreen: LT-1

RC: None

NANO: No

SUBSTANCE ROLE: Lubricant

| HAZARD TYPE | LIST NAME AND SOURCE                        | WARNINGS                                                                                                                                |
|-------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| CAN         | EU - Annex VI CMRs                          | Carcinogen Category 1B - Presumed Carcinogen based on animal evidence                                                                   |
| MUL         | ChemSec - SIN List                          | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant                                                                                    |
| MUL         | German FEA - Substances Hazardous to Waters | Class 3 - Severe Hazard to Waters                                                                                                       |
| GEN         | EU - Annex VI CMRs                          | Mutagen - Category 1B                                                                                                                   |
| CAN         | GHS - Australia                             | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]                                                                           |
| GEN         | GHS - Australia                             | H340 - May cause genetic defects [Germ cell mutagenicity - Category 1A or 1B]                                                           |
| CAN         | GHS - Malaysia                              | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]                                                                           |
| GEN         | GHS - Malaysia                              | H340 - May cause genetic defects [Germ cell mutagenicity - Category 1A or 1B]                                                           |
| CAN         | EU - GHS (H-Statements) Annex 6 Table 3-1   | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]                                                                           |
| MAM         | EU - GHS (H-Statements) Annex 6 Table 3-1   | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1] |
| GEN         | EU - GHS (H-Statements) Annex 6 Table 3-1   | H340 - May cause genetic defects [Germ cell mutagenicity - Category 1A or 1B]                                                           |
| MAM         | GHS - Japan                                 | H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]                                 |
| MAM         | GHS - Australia                             | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1] |
| SKI         | GHS - Japan                                 | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]                                                                |
| AQU         | GHS - Japan                                 | H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]                                           |
| AQU         | GHS - Japan                                 | H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]               |
| CAN         | EU - REACH Annex XVII CMRs                  | Carcinogens: Category 1B                                                                                                                |
| GEN         | EU - REACH Annex XVII CMRs                  | Germ cell mutagens: Category 1B                                                                                                         |
| MAM         | EU - GHS (H-Statements) Annex 6 Table 3-1   | H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]                                                    |
| MAM         | GHS - Malaysia                              | H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]                                                    |
| MAM         | GHS - Australia                             | H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]                                                    |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION                                                                                                                      |
|---------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                    | GSPI - Six Classes Precautionary List<br><br>Some Solvents                                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Core Restrictions            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products          |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Formulated Consumer Products |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>All Products                            |

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation.

UNS G10080-10100 STEEL ALLOY

ID: UNS G10080-10100

HAZARD DATA SOURCE: 3E Exchange Chemical Hazard Screening Library

%: 0.0000 - 1.0000GreenScreen: See notesRC: NoneNANO: NoMATERIAL ROLE: Fastener

| HAZARD TYPE                                                  | AGENCY AND LIST TITLES | WARNINGS |
|--------------------------------------------------------------|------------------------|----------|
| Hazard Screening is not applicable to this Special Condition |                        |          |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ UNS G10080-10100 ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

UNS A92011 ALUMINUM ALLOY

ID: UNS A92011

HAZARD DATA SOURCE: 3E Exchange Chemical Hazard Screening Library

| HAZARD TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AGENCY AND LIST TITLES | WARNINGS |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------|
| Hazard Screening is not applicable to this Special Condition                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |          |
| METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ UNS A92011 ]                                                                                                                                                                                                                                                                                                                                                                          |                        |          |
| METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above. |                        |          |
| GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: Aluminum (Al) - BM-1                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |          |
| LISTING NOTES: No Additional Listings appear for the alloy.                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |          |
| MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available. |                        |          |

AISI 4135 STEEL

ID: UNS G41350

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |          |                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------|---------------------------------------------|
| HAZARD DATA SOURCE: 3E Exchange Chemical Hazard Screening Library                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |          |                                             |
| %: 0.0000 - 1.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | GreenScreen: See notes | RC: None | NANO: No MATERIAL ROLE: Structure component |
| HAZARD TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AGENCY AND LIST TITLES | WARNINGS |                                             |
| Hazard Screening is not applicable to this Special Condition                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |          |                                             |
| METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ UNS G41350 ]                                                                                                                                                                                                                                                                                                                                                                          |                        |          |                                             |
| METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above. |                        |          |                                             |
| GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |          |                                             |
| LISTING NOTES: No Additional Listings appear for the alloy.                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |          |                                             |
| MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available. |                        |          |                                             |

AISI 52100 ALLOY STEEL

ID: UNS G52986

|                                                                   |                        |          |          |                                    |
|-------------------------------------------------------------------|------------------------|----------|----------|------------------------------------|
| HAZARD DATA SOURCE: 3E Exchange Chemical Hazard Screening Library |                        |          |          |                                    |
| %: 0.0000 - 1.0000                                                | GreenScreen: See notes | RC: None | NANO: No | MATERIAL ROLE: Structure component |
| HAZARD TYPE                                                       | AGENCY AND LIST TITLES | WARNINGS |          |                                    |
| Hazard Screening is not applicable to this Special Condition      |                        |          |          |                                    |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS G52986](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

UNS S41000 STEEL ALLOY

ID: **UNS S41000**

HAZARD DATA SOURCE: **3E Exchange Chemical Hazard Screening Library**

%: **0.0000 - 1.0000** GreenScreen: **See notes** RC: **None** NANO: **No** MATERIAL ROLE: **Structure component**

| HAZARD TYPE                                                  | AGENCY AND LIST TITLES | WARNINGS |
|--------------------------------------------------------------|------------------------|----------|
| Hazard Screening is not applicable to this Special Condition |                        |          |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS S41000](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

UNS G40370 STEEL ALLOY

ID: **UNS G40370**

HAZARD DATA SOURCE: **3E Exchange Chemical Hazard Screening Library**

%: **0.0000 - 1.0000** GreenScreen: **See notes** RC: **None** NANO: **No** MATERIAL ROLE: **Structure component**

| HAZARD TYPE                                                  | AGENCY AND LIST TITLES | WARNINGS |
|--------------------------------------------------------------|------------------------|----------|
| Hazard Screening is not applicable to this Special Condition |                        |          |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS G40370](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

UNS G10180 STEEL ALLOY

ID: **UNS G10180**

HAZARD DATA SOURCE: **3E Exchange Chemical Hazard Screening Library**

%: **0.0000 - 1.0000**      GreenScreen: **See notes**      RC: **None**      NANO: **No**      MATERIAL ROLE: **Fastener**

| HAZARD TYPE                                                  | AGENCY AND LIST TITLES | WARNINGS |
|--------------------------------------------------------------|------------------------|----------|
| Hazard Screening is not applicable to this Special Condition |                        |          |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS G10180](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

FX-2008-60 COPPER-INFILTRATED STEEL POWDER

ID: **MPIF FX-2008-60**

HAZARD DATA SOURCE: **3E Exchange Chemical Hazard Screening Library**

%: **0.0000 - 1.0000**      GreenScreen: **See notes**      RC: **None**      NANO: **No**      MATERIAL ROLE: **Structure component**

| HAZARD TYPE                                                  | AGENCY AND LIST TITLES | WARNINGS |
|--------------------------------------------------------------|------------------------|----------|
| Hazard Screening is not applicable to this Special Condition |                        |          |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [MPIF FX-2008-60](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

UNS G12144 STEEL ALLOY

ID: **UNS G12144**

HAZARD DATA SOURCE: **3E Exchange Chemical Hazard Screening Library**

|                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>%: 0.0000 - 1.0000</div> <div>GreenScreen: See notes</div> <div>RC: None</div> <div>NANO: No</div> <div>MATERIAL ROLE: Fastener</div> </div> |
| <div> <div>HAZARD TYPE</div> <div>AGENCY AND LIST TITLES</div> <div>WARNINGS</div> </div>                                                               |
| <div> <div>Hazard Screening is not applicable to this Special Condition</div> </div>                                                                    |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS G12144](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: Lead (Pb) - BM-1

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

UNS G10080 STEEL ALLOY

ID: **UNS G10080**

HAZARD DATA SOURCE: **3E Exchange Chemical Hazard Screening Library**

|                                                              |                        |          |          |                         |
|--------------------------------------------------------------|------------------------|----------|----------|-------------------------|
| %: 0.0000 - 1.0000                                           | GreenScreen: See notes | RC: None | NANO: No | MATERIAL ROLE: Fastener |
| HAZARD TYPE                                                  | AGENCY AND LIST TITLES | WARNINGS |          |                         |
| Hazard Screening is not applicable to this Special Condition |                        |          |          |                         |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS G10080](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

UNS G10100-10220 STEEL ALLOY

ID: **UNS G10100-10220**

HAZARD DATA SOURCE: **3E Exchange Chemical Hazard Screening Library**

|                                                              |                        |          |          |                         |
|--------------------------------------------------------------|------------------------|----------|----------|-------------------------|
| %: 0.0000 - 1.0000                                           | GreenScreen: See notes | RC: None | NANO: No | MATERIAL ROLE: Fastener |
| HAZARD TYPE                                                  | AGENCY AND LIST TITLES | WARNINGS |          |                         |
| Hazard Screening is not applicable to this Special Condition |                        |          |          |                         |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS G10100-10220](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available.

ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE)

ID: **111-76-2**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2025-07-25 8:33:15**

|                           |                          |                 |                 |                                  |
|---------------------------|--------------------------|-----------------|-----------------|----------------------------------|
| %: <b>0.0000 - 0.5000</b> | GreenScreen: <b>BM-2</b> | RC: <b>None</b> | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Lubricant</b> |
|---------------------------|--------------------------|-----------------|-----------------|----------------------------------|

| HAZARD TYPE | LIST NAME AND SOURCE                      | WARNINGS                                                                                                                                                  |
|-------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| END         | TEDX - Potential Endocrine Disruptors     | Potential Endocrine Disruptor                                                                                                                             |
| SKI         | EU - GHS (H-Statements) Annex 6 Table 3-1 | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]                                                                                    |
| EYE         | EU - GHS (H-Statements) Annex 6 Table 3-1 | H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]                                                                    |
| MAM         | EU - GHS (H-Statements) Annex 6 Table 3-1 | H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]                                                                                        |
| EYE         | GHS - New Zealand                         | Eye irritation category 2                                                                                                                                 |
| EYE         | GHS - Australia                           | H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]                                                                    |
| MAM         | GHS - Japan                               | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| MAM         | GHS - Japan                               | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]                                          |
| SKI         | GHS - Japan                               | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]                                                                                  |
| REP         | GHS - Japan                               | H361 - Suspected of damaging fertility or the unborn child [Toxic to reproduction - Category 2]                                                           |
| MAM         | Québec CSST - WHMIS 1988                  | Class D1A - Very toxic material causing immediate and serious toxic effects                                                                               |
| MAM         | GHS - Japan                               | H311 - Toxic in contact with skin [Acute Toxicity (dermal) - Category 3]                                                                                  |
| EYE         | GHS - Japan                               | H319 - Causes serious eye irritation [Serious eye damage / eye irritation - Category 2A]                                                                  |
| MAM         | GHS - Japan                               | H330 - Fatal if inhaled [Acute toxicity (inhalation: vapor) - Category 2]                                                                                 |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                            |
|---------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br><br>Some Solvents                                                                              |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Cosmetics & Personal Care Products |

SUBSTANCE NOTES: A range is given to protect the proprietary nature of the supplier's formulation.

|                                                                                                    |                      |                   |          |                                                |                           |
|----------------------------------------------------------------------------------------------------|----------------------|-------------------|----------|------------------------------------------------|---------------------------|
| %: 0.0000 - 0.5000                                                                                 |                      | GreenScreen: NoGS | RC: None | NANO: No                                       | SUBSTANCE ROLE: Lubricant |
| HAZARD TYPE                                                                                        | LIST NAME AND SOURCE |                   |          | WARNINGS                                       |                           |
| None found                                                                                         |                      |                   |          | No warnings found on HPD Priority Hazard Lists |                           |
| ADDITIONAL LISTINGS                                                                                | LIST NAME AND SOURCE |                   |          | NOTIFICATION                                   |                           |
| None found                                                                                         |                      |                   |          | No listings found on Additional Hazard Lists   |                           |
| SUBSTANCE NOTES: A range is given to protect the proprietary nature of the supplier's formulation. |                      |                   |          |                                                |                           |

2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE

ID: 9003-18-3

|                                                                                            |                      |                            |                                                  |                                                |                                        |
|--------------------------------------------------------------------------------------------|----------------------|----------------------------|--------------------------------------------------|------------------------------------------------|----------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b>                           |                      |                            | HAZARD SCREENING DATE: <b>2025-07-25 8:33:16</b> |                                                |                                        |
| %: <b>0.0000 - 0.2000</b>                                                                  |                      | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b>                                  | NANO: <b>No</b>                                | SUBSTANCE ROLE: <b>Polymer species</b> |
| HAZARD TYPE                                                                                | LIST NAME AND SOURCE |                            |                                                  | WARNINGS                                       |                                        |
| None found                                                                                 |                      |                            |                                                  | No warnings found on HPD Priority Hazard Lists |                                        |
| ADDITIONAL LISTINGS                                                                        | LIST NAME AND SOURCE |                            |                                                  | NOTIFICATION                                   |                                        |
| None found                                                                                 |                      |                            |                                                  | No listings found on Additional Hazard Lists   |                                        |
| SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation. |                      |                            |                                                  |                                                |                                        |

GRAPHITE

ID: 7782-42-5

|                                                                                            |                      |                            |                                                  |                 |                                |
|--------------------------------------------------------------------------------------------|----------------------|----------------------------|--------------------------------------------------|-----------------|--------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b>                           |                      |                            | HAZARD SCREENING DATE: <b>2025-07-25 8:33:15</b> |                 |                                |
| %: <b>0.0000 - 0.1000</b>                                                                  |                      | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b>                                  | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Pigment</b> |
| HAZARD TYPE                                                                                | LIST NAME AND SOURCE |                            | WARNINGS                                         |                 |                                |
| None found                                                                                 |                      |                            | No warnings found on HPD Priority Hazard Lists   |                 |                                |
| ADDITIONAL LISTINGS                                                                        | LIST NAME AND SOURCE |                            | NOTIFICATION                                     |                 |                                |
| None found                                                                                 |                      |                            | No listings found on Additional Hazard Lists     |                 |                                |
| SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation. |                      |                            |                                                  |                 |                                |

BENZENESULFONIC ACID, DI-C10-18-ALKYL DERIVS., BARIUM SALTS

ID: 93820-55-4

|                                                                  |  |                          |                                                  |                 |                                |
|------------------------------------------------------------------|--|--------------------------|--------------------------------------------------|-----------------|--------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |  |                          | HAZARD SCREENING DATE: <b>2025-07-25 8:33:15</b> |                 |                                |
| %: <b>0.0000 - 0.1000</b>                                        |  | GreenScreen: <b>NoGS</b> | RC: <b>None</b>                                  | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Coating</b> |

| HAZARD TYPE                                                                                | LIST NAME AND SOURCE | WARNINGS                                       |
|--------------------------------------------------------------------------------------------|----------------------|------------------------------------------------|
| None found                                                                                 |                      | No warnings found on HPD Priority Hazard Lists |
| ADDITIONAL LISTINGS                                                                        | LIST NAME AND SOURCE | NOTIFICATION                                   |
| None found                                                                                 |                      | No listings found on Additional Hazard Lists   |
| SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation. |                      |                                                |

ETHYLENE GLYCOL MONO-N-BUTYL ETHER

ID: 111-76-2

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2025-07-25 8:33:16**

%: **0.0000 - 0.1000**GreenScreen: **BM-2**RC: **None**NANO: **No**SUBSTANCE ROLE: **Coating**

| HAZARD TYPE | LIST NAME AND SOURCE                      | WARNINGS                                                                                                                                                  |
|-------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| END         | TEDX - Potential Endocrine Disruptors     | Potential Endocrine Disruptor                                                                                                                             |
| SKI         | EU - GHS (H-Statements) Annex 6 Table 3-1 | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]                                                                                    |
| EYE         | EU - GHS (H-Statements) Annex 6 Table 3-1 | H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]                                                                    |
| MAM         | EU - GHS (H-Statements) Annex 6 Table 3-1 | H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]                                                                                        |
| EYE         | GHS - New Zealand                         | Eye irritation category 2                                                                                                                                 |
| EYE         | GHS - Australia                           | H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]                                                                    |
| MAM         | GHS - Japan                               | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| MAM         | GHS - Japan                               | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]                                          |
| SKI         | GHS - Japan                               | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]                                                                                  |
| REP         | GHS - Japan                               | H361 - Suspected of damaging fertility or the unborn child [Toxic to reproduction - Category 2]                                                           |
| MAM         | Québec CSST - WHMIS 1988                  | Class D1A - Very toxic material causing immediate and serious toxic effects                                                                               |
| MAM         | GHS - Japan                               | H311 - Toxic in contact with skin [Acute Toxicity (dermal) - Category 3]                                                                                  |
| EYE         | GHS - Japan                               | H319 - Causes serious eye irritation [Serious eye damage / eye irritation - Category 2A]                                                                  |
| MAM         | GHS - Japan                               | H330 - Fatal if inhaled [Acute toxicity (inhalation: vapor) - Category 2]                                                                                 |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                  |
|---------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List                                                         |
|                     |                                                         | Some Solvents                                                                                 |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 |
|                     |                                                         | Cosmetics & Personal Care Products                                                            |

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation.

SOLVENT NAPHTHA (PETROLEUM), HEAVY ALIPHATICID: 64742-96-7

| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                                           |                                                                                      | HAZARD SCREENING DATE: 2025-07-25 8:33:16 |                         |
|-----------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------|-------------------------|
| %: 0.0000 - 0.1000                                        | GreenScreen: LT-UNK                       | RC: None                                                                             | NANO: No                                  | SUBSTANCE ROLE: Coating |
| HAZARD TYPE                                               | LIST NAME AND SOURCE                      | WARNINGS                                                                             |                                           |                         |
| MAM                                                       | EU - GHS (H-Statements) Annex 6 Table 3-1 | H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1] |                                           |                         |
| MAM                                                       | GHS - Australia                           | H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1] |                                           |                         |
| ADDITIONAL LISTINGS                                       | LIST NAME AND SOURCE                      | NOTIFICATION                                                                         |                                           |                         |
| None found                                                |                                           | No listings found on Additional Hazard Lists                                         |                                           |                         |

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation.

ACETYLTRIBUTYL CITRATEID: 77-90-7

| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                                             |                                                           | HAZARD SCREENING DATE: 2025-07-25 8:33:17 |                             |
|-----------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------|-------------------------------------------|-----------------------------|
| %: 0.0000 - 0.1000                                        | GreenScreen: BM-3                           | RC: None                                                  | NANO: No                                  | SUBSTANCE ROLE: Plasticizer |
| HAZARD TYPE                                               | LIST NAME AND SOURCE                        | WARNINGS                                                  |                                           |                             |
| MUL                                                       | German FEA - Substances Hazardous to Waters | Class 3 - Severe Hazard to Waters                         |                                           |                             |
| AQU                                                       | GHS - New Zealand                           | Hazardous to the aquatic environment - acute category 1   |                                           |                             |
| AQU                                                       | GHS - New Zealand                           | Hazardous to the aquatic environment - chronic category 1 |                                           |                             |
| ADDITIONAL LISTINGS                                       | LIST NAME AND SOURCE                        | NOTIFICATION                                              |                                           |                             |
| RESTRICTED LIST                                           | Green Science Policy Institute (GSPI)       | GSPI - Six Classes Precautionary List                     |                                           |                             |
|                                                           |                                             | Some Solvents                                             |                                           |                             |

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation.

C13-14 ISOPARAFFIN

ID: 64742-47-8

|                                                           |                                           |                                                                                                                      |                                           |                         |
|-----------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------|
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                                           |                                                                                                                      | HAZARD SCREENING DATE: 2025-07-25 8:33:16 |                         |
| %: 0.0000 - 0.1000                                        | GreenScreen: BM-2                         | RC: None                                                                                                             | NANO: No                                  | SUBSTANCE ROLE: Coating |
| HAZARD TYPE                                               | LIST NAME AND SOURCE                      | WARNINGS                                                                                                             |                                           |                         |
| CAN                                                       | MAK                                       | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification                         |                                           |                         |
| AQU                                                       | GHS - Japan                               | H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]                             |                                           |                         |
| AQU                                                       | GHS - Japan                               | H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2] |                                           |                         |
| MAM                                                       | EU - GHS (H-Statements) Annex 6 Table 3-1 | H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]                                 |                                           |                         |
| MAM                                                       | GHS - Australia                           | H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]                                 |                                           |                         |
| ADDITIONAL LISTINGS                                       | LIST NAME AND SOURCE                      | NOTIFICATION                                                                                                         |                                           |                         |
| RESTRICTED LIST                                           | Green Science Policy Institute (GSPI)     | GSPI - Six Classes Precautionary List                                                                                |                                           |                         |
|                                                           |                                           | Some Solvents                                                                                                        |                                           |                         |

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation.

ZINC (POWDER/DUST) STABILISED

ID: 7440-66-6

|                                                           |                    |          |                                           |                         |
|-----------------------------------------------------------|--------------------|----------|-------------------------------------------|-------------------------|
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                    |          | HAZARD SCREENING DATE: 2025-07-25 8:33:17 |                         |
| %: 0.0000 - 0.1000                                        | GreenScreen: LT-P1 | RC: None | NANO: No                                  | SUBSTANCE ROLE: Coating |

| HAZARD TYPE         | LIST NAME AND SOURCE                                     | WARNINGS                                                                                                                                               |
|---------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| END                 | TEDX - Potential Endocrine Disruptors                    | Potential Endocrine Disruptor                                                                                                                          |
| MUL                 | German FEA - Substances Hazardous to Waters              | Class 3 - Severe Hazard to Waters                                                                                                                      |
| AQU                 | EU - GHS (H-Statements) Annex 6 Table 3-1                | H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]                                                          |
| AQU                 | EU - GHS (H-Statements) Annex 6 Table 3-1                | H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]                              |
| PHY                 | GHS - New Zealand                                        | Pyrophoric solids category 1                                                                                                                           |
| PHY                 | GHS - New Zealand                                        | Self-heating substances and mixtures category 1                                                                                                        |
| PHY                 | GHS - New Zealand                                        | Substances and mixtures which, in contact with water, emit flammable gases category 1                                                                  |
| AQU                 | GHS - New Zealand                                        | Hazardous to the aquatic environment - acute category 1                                                                                                |
| AQU                 | GHS - Japan                                              | H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]                                                          |
| AQU                 | GHS - Japan                                              | H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]                              |
| AQU                 | GHS - Australia                                          | H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]                              |
| AQU                 | GHS - New Zealand                                        | Hazardous to the aquatic environment - chronic category 1                                                                                              |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION                                                                                                                                           |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                    | GSPI - Six Classes Precautionary List<br><br>Antimicrobials                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>Children's Toy Products                                      |

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation.

SUBSTANCE ROLE: **Filler**

SUBSTANCE NOTES:

## ID: 9005-98-5

HAZARD SCREENING DATE: 2025-07-25 8:33:18

SUBSTANCE ROLE: **Polymer species**

SUBSTANCE NOTES: A range is provided to protect the proprietary nature of the formulation.

## ID: 64742-54-7

HAZARD SCREENING DATE: 2025-07-25 8:33:18

SUBSTANCE ROLE: **Lubricant**

| HAZARD TYPE | LIST NAME AND SOURCE                        | WARNINGS                                                                            |
|-------------|---------------------------------------------|-------------------------------------------------------------------------------------|
| CAN         | EU - Annex VI CMRs                          | Carcinogen Category 1B - Presumed Carcinogen based on animal evidence               |
| MUL         | ChemSec - SIN List                          | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant                                |
| MUL         | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters                                                          |
| CAN         | GHS - Australia                             | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]                       |
| CAN         | EU - GHS (H-Statements) Annex 6 Table 3-1   | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]                       |
| SKI         | GHS - Australia                             | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]              |
| DEV         | GHS - Australia                             | H361d - Suspected of damaging the unborn child [Reproductive toxicity - Category 2] |
| CAN         | EU - REACH Annex XVII CMRs                  | Carcinogens: Category 1B                                                            |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION                                                                                  |
|---------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 |
|                     |                                                          | Children's Products                                                                           |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 |
|                     |                                                          | Formulated Consumer Products                                                                  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025            |
|                     |                                                          | All Products                                                                                  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025            |
|                     |                                                          | Cosmetics and Personal Care Products                                                          |

SUBSTANCE NOTES: A range is given to protect the proprietary nature of the supplier's formulation.

## UNS K08500 STEEL ALLOY

ID: **UNS K08500 Steel Alloy**

HAZARD DATA SOURCE: **3E Exchange Chemical Hazard Screening Library**

%: **0.0000 - 0.1000**
 GreenScreen: **See notes**
 RC: **None**
 NANO: **No**
 MATERIAL ROLE: **Fastener**

| HAZARD TYPE                                                  | AGENCY AND LIST TITLES | WARNINGS |
|--------------------------------------------------------------|------------------------|----------|
| Hazard Screening is not applicable to this Special Condition |                        |          |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS K08500 Steel Alloy](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES: GreenScreen BM-1 and LT-1 scores of constituent alloying elements are listed, but it should be noted that hazard assessment of individual elements is different and not commensurate with hazard assessment of metal alloys, which have different physical and reactive properties, and for which a comprehensive hazard assessment methodology has not been identified that supports the purpose of an HPD. No metal alloy product or supplier HPDs available

UNS G10350-10380 CARBON STEEL ALLOY

ID: UNS G10350-10380

HAZARD DATA SOURCE: 3E Exchange Chemical Hazard Screening Library

|                                                              |                        |          |          |                         |
|--------------------------------------------------------------|------------------------|----------|----------|-------------------------|
| %: 0.0000 - 0.1000                                           | GreenScreen: See notes | RC: None | NANO: No | MATERIAL ROLE: Fastener |
| HAZARD TYPE                                                  | AGENCY AND LIST TITLES | WARNINGS |          |                         |
| Hazard Screening is not applicable to this Special Condition |                        |          |          |                         |

METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [ [UNS G10350-10380](#) ]

METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.

GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: None

LISTING NOTES: No Additional Listings appear for the alloy.

MATERIAL CONTENT NOTES:

UNS C22000 BRONZE ALLOY

ID: UNS C22000

HAZARD DATA SOURCE: 3E Exchange Chemical Hazard Screening Library

|                                                              |                        |          |          |                         |
|--------------------------------------------------------------|------------------------|----------|----------|-------------------------|
| %: 0.0000 - 0.1000                                           | GreenScreen: See notes | RC: None | NANO: No | MATERIAL ROLE: Fastener |
| HAZARD TYPE                                                  | AGENCY AND LIST TITLES | WARNINGS |          |                         |
| Hazard Screening is not applicable to this Special Condition |                        |          |          |                         |

### Section 3: Certifications and Compliance

*This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.*

| VOC EMISSIONS                       | Inherently non-emitting source per LEED |                        |
|-------------------------------------|-----------------------------------------|------------------------|
| CERTIFYING PARTY: Self-declared     | ISSUE DATE: 2024-12-03 00:00:00         | CERTIFIER OR LAB: None |
| APPLICABLE FACILITIES: All          | EXPIRY DATE:                            |                        |
| 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.*

No accessories are required for this product.

### Section 5: General Notes

This HPD represents the LCN 2030 series door closers.

## MANUFACTURER INFORMATION

MANUFACTURER: **Allegion**  
ADDRESS: **121 W Railroad Ave**  
**Princeton, IL 61356**  
COUNTRY: **USA**

WEBSITE: **<https://www.lcnclosers.com/en/products/overhead-concealed/2030-5030-6030-series-closers.html>**  
CONTACT NAME: **Aaron Owens**  
TITLE: **Sustainability Specialist**  
PHONE: **317-810-3751**  
EMAIL: **sustainability@allegion.com**

*The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.*

## KEY

## Hazard Types

|                                       |                                                   |                                                      |
|---------------------------------------|---------------------------------------------------|------------------------------------------------------|
| <b>AQU</b> Aquatic toxicity           | <b>LAN</b> Land toxicity                          | <b>PHY</b> Physical hazard (flammable or reactive)   |
| <b>CAN</b> Cancer                     | <b>MAM</b> Mammalian/systemic/organ toxicity      | <b>REP</b> Reproductive                              |
| <b>DEV</b> Developmental toxicity     | <b>MUL</b> Multiple                               | <b>RES</b> Respiratory sensitization                 |
| <b>END</b> Endocrine activity         | <b>NEU</b> Neurotoxicity                          | <b>SKI</b> Skin sensitization/irritation/corrosivity |
| <b>EYE</b> Eye irritation/corrosivity | <b>NF</b> Not found on Priority Hazard Lists      | <b>UNK</b> Unknown                                   |
| <b>GEN</b> Gene mutation              | <b>OZO</b> Ozone depletion                        |                                                      |
| <b>GLO</b> Global warming             | <b>PBT</b> Persistent, bioaccumulative, and toxic |                                                      |

## GreenScreen (GS)

|                                                                     |                                                                |
|---------------------------------------------------------------------|----------------------------------------------------------------|
| <b>BM-4</b> Benchmark 4 (prefer-safer chemical)                     | <b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1) |
| <b>BM-3</b> Benchmark 3 (use but still opportunity for improvement) | <b>LT-1</b> List Translator 1 (Likely Benchmark-1)             |
| <b>BM-2</b> Benchmark 2 (use but search for safer substitutes)      | <b>LT-UNK</b> List Translator Benchmark Unknown                |
| <b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)          | <b>NoGS</b> No GreenScreen.                                    |
| <b>BM-U</b> Benchmark Unspecified (due to insufficient data)        |                                                                |

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org), and Best Practices for Hazard Screening on the HPDC website ([hpd-collaborative.org](http://hpd-collaborative.org)).

## Recycled Types

|                                                     |
|-----------------------------------------------------|
| <b>PreC</b> Pre-consumer recycled content           |
| <b>PostC</b> Post-consumer recycled content         |
| <b>UNK</b> Inclusion of recycled content is unknown |
| <b>None</b> Does not include recycled content       |

## Other Terms:

**GHS SDS** Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

## Inventory Methods:

|                                           |                                                                             |
|-------------------------------------------|-----------------------------------------------------------------------------|
| <b>Nested Method / Material Threshold</b> | Substances listed within each material per threshold indicated per material |
| <b>Nested Method / Product Threshold</b>  | Substances listed within each material per threshold indicated per product  |
| <b>Basic Method / Product Threshold</b>   | 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               |

*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*

