

Schlage ALX Series  
by Allegion

SCREENING DATE: 2026-02-03  
PUBLISHED DATE: 2026-02-04  
EXPIRY DATE: 2029-02-03  
PREPARER: Self-Prepared

Health Product  
Declaration v3.0  
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 133726476288  
HPD UNIQUE PRODUCT ID: Not provided.  
CLASSIFICATION: 08 71 00 Door Hardware  
PRODUCT DESCRIPTION: The Schlage ALX Series is a grade 2 lock unlike any other. Designed to exceed expectations, it features a single, patent pending chassis design that supports most functions and all cylinder applications. As a modular lock, ALX Series enables in-field function set up or exchange plus a field-selectable Vandlgard feature on all locking functions. Exceptional durability comes from a stainless steel latchbolt, deep-drawn spindles with 5 points of lever engagement and the use of Grade 1 compression springs that prevent droop and wobble. Perfectly suited to the ND Series grade 1 locks, ALX allows you to seamlessly suite between the two to gain grade 1 strength, security and functionality when and where you need it right alongside ALX as a budget saving grade 2 solution elsewhere in the building.

Section 1: SummaryBasic Method / Product Threshold

CONTENT INVENTORY

|                            |                                 |                                                             |
|----------------------------|---------------------------------|-------------------------------------------------------------|
| Inventory Reporting Format | Residuals/Impurities Evaluation | For all contents above the threshold, the manufacturer has: |
| → Basic Method             | → Completed                     |                                                             |
| Threshold Disclosed Per    | Explanation(s) provided :       | Characterized                                               |
| → Product                  | Yes                             | Provided weight and role.                                   |
| Threshold Level            |                                 | Screened                                                    |
| → 100 ppm                  |                                 | Provided screening results using HPDC-approved methods.     |
|                            |                                 | Identified                                                  |
|                            |                                 | 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

SCHLAGE ALX SERIES [ UNS Z35531 ZINC ALLOY MULTIPLE UNS Z35540 ZINC ALLOY MULTIPLE UNS G10100 STEEL ALLOY MULTIPLE UNS S43000 STAINLESS STEEL ALLOY MULTIPLE UNS G10220 STEEL ALLOY MULTIPLE UNS C26000 COPPER ALLOY MULTIPLE UNS C78200 COPPER ALLOY MULTIPLE UNS C36000 COPPER ALLOY MULTIPLE NYLON 6,6 LT-UNK UNS Z35636 ZINC ALLOY MULTIPLE UNS G12144 STEEL ALLOY MULTIPLE UNS S30200 STAINLESS STEEL ALLOY MULTIPLE UNS G10950 STEEL ALLOY MULTIPLE UNS C26800 COPPER ALLOY MULTIPLE UNS S30430 STAINLESS STEEL ALLOY MULTIPLE POLYVINYL CHLORIDE LT-P1 ]  
CAN | MAM RUBBER, SYNTHETIC EPDM NoGS ]

Number of Greenscreen BM-4/BM3 contents ... 0  
Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1, BM-1, LT-UNK, BM-2, LT-1  
Nanomaterial ... No  
INVENTORY AND SCREENING NOTES:  
Special Conditions applied: [MetalAlloy]

All the chemicals that fall above 100ppm are included and screened against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

COMPLIANCE See Section 3 for additional listings.  
VOC emissions: CDPH Standard Method - Not tested

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1.  
Pre-checked for LEED v4 Option 2.  
Pre-checked for LEED v4.1 Option 1.

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 3.0, available on the HPDC website at: [www.hpd-collaborative.org/hpd-3-0-standard](http://www.hpd-collaborative.org/hpd-3-0-standard)

SCHLAGE ALX SERIES

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: Residual and impurity information was collected from suppliers and all substances that fall above the stated reporting threshold have been included in the inventory.

OTHER PRODUCT NOTES:

UNS Z35531 ZINC ALLOY

ID: UNS Z35531

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

%: 25.0000 - 35.0000

GreenScreen: MULTIPLE

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 Z35531](#) ]

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.

ALLOYING ELEMENTS

- Aluminum (Al)  
CASRN: 7429-90-5  
Percentage: 3.5 % - 4.4 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                       |
|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |

- Copper (Cu)  
CASRN: 7440-50-8  
Percentage: 0.75 % - 1.25 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

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

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                       |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                      | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                             |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br>Antimicrobials                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                         |

• **Iron (Fe)**

CASRN: 7439-89-6  
 Percentage: 0 % - 0.10 %  
 Element Role: Alloy element  
 GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

• **Lead (Pb)**

CASRN: 7439-92-1  
 Percentage: 0 % - 0.005 %  
 Element Role: Alloy element  
 GreenScreen Score: BM-1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                                              |
|---------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                      | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                                                    |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br>Certain Metals                                                                                                                   |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Core Restrictions                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Formulated Consumer Products                                             |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Footwear, Apparel & Jewelry Products                                     |
| RESTRICTED LIST     | International Living Future Institute (ILFI)            | Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective February 1, 2025<br>Red List substances to avoid in Living Building Challenge V4.0 projects |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                               |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>All Products                         |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Electronics (RoHS)                   |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products              |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products |

- **Magnesium (Mg)**  
CASRN: 7439-95-4  
Percentage: 0.03 % - 0.08 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

No listings found on Additional Hazard Lists

- **Zinc (Zn)**  
CASRN: 7440-66-6  
Percentage: 94.258 % - 95.72 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

- **Tin (Sn)**  
CASRN: 7440-31-5  
Percentage: 0 % - 0.003 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                  |
|---------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products |

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 Z35540 ZINC ALLOY

ID: **UNS Z35540**

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

%: **15.0000 - 25.0000**      GreenScreen: **MULTIPLE**      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 Z35540](#) ]

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.

ALLOYING ELEMENTS

- Iron (Fe)**  
CASRN: 7439-89-6  
Percentage: 0 % - 0.035 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

- Aluminum (Al)**  
CASRN: 7429-90-5  
Percentage: 3.9 % - 4.3 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                       |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |

- Copper (Cu)**  
CASRN: 7440-50-8  
Percentage: 2.7 % - 3.3 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                       |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                      | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                             |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br>Antimicrobials                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                         |

- Lead (Pb)**  
CASRN: 7439-92-1  
Percentage: 0 % - 0.004 %  
Element Role: Alloy element  
GreenScreen Score: BM-1

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

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                                              |
|---------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                     | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                                                    |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                  | GSPI - Six Classes Precautionary List<br>Certain Metals                                                                                                                   |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Core Restrictions                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Formulated Consumer Products                                             |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Footwear, Apparel & Jewelry Products                                     |
| RESTRICTED LIST     | International Living Future Institute (ILFI)           | Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective February 1, 2025<br>Red List substances to avoid in Living Building Challenge V4.0 projects |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>All Products                                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Electronics (RoHS)                                                                  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                                             |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                                                |

- Magnesium (Mg)**  
CASRN: 7439-95-4  
Percentage: 0.025 % - 0.05 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

No listings found on Additional Hazard Lists

- Tin (Sn)**  
CASRN: 7440-31-5  
Percentage: 0 % - 0.0015 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                  |
|---------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products |

- Zinc (Zn)**  
CASRN: 7440-66-6  
Percentage: 92.3 % - 93.4 %  
Element Role: Alloy element

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

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 STEEL ALLOY

ID: UNS G10100

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

%: **15.0000 - 20.0000**      GreenScreen: **MULTIPLE**      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 G10100](#) ]

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.

ALLOYING ELEMENTS

• **Carbon (C)**

CASRN: 7440-44-0  
Percentage: 0.08 % - 0.13 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

• **Iron (Fe)**

CASRN: 7439-89-6  
Percentage: 99.18 % - 99.62 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

• **Manganese (Mn)**

CASRN: 7439-96-5  
Percentage: 0.3 % - 0.6 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                       |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                  |
|---------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products |

- Phosphorus (P)**  
CASRN: 7723-14-0  
Percentage: 0 % - 0.04 %  
Element Role: Alloy element  
GreenScreen Score: BM-2

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                        |
|---------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Cosmetics & Personal Care Products |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products          |

- Sulfur (S)**  
CASRN: 7704-34-9  
Percentage: 0 % - 0.05 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

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 S43000 STAINLESS STEEL ALLOY

ID: UNS S43000

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

%: 10.0000 - 15.0000      GreenScreen: MULTIPLE      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 S43000](#) ]

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.

ALLOYING ELEMENTS

- Carbon (C)**  
CASRN: 7440-44-0  
Percentage: 0 % - 0.12 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                         |
|---------------------|---------------------------------------|------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List Antimicrobials |

• **Chromium (Cr)**

CASRN: 7440-47-3  
 Percentage: 10 % - 12 %  
 Element Role: Alloy element  
 GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                       |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Cosmetics & Personal Care Products                |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                         |

• **Iron (Fe)**

CASRN: 7439-89-6  
 Percentage: 85 % - 90 %  
 Element Role: Alloy element  
 GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

• **Manganese (Mn)**

CASRN: 7439-96-5  
 Percentage: 0 % - 0.1 %  
 Element Role: Alloy element  
 GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                       |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |

• **Phosphorus (P)**

CASRN: 7723-14-0  
 Percentage: 0 % - 0.04 %  
 Element Role: Alloy element  
 GreenScreen Score: BM-2

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

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION                                                                                                               |
|---------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products |

- Silicon (Si)**  
CASRN: 7440-21-3  
Percentage: 0 % - 1 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

No listings found on Additional Hazard Lists

- Sulfur (S)**  
CASRN: 7704-34-9  
Percentage: 0 % - 0.03 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

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 G10220 STEEL ALLOY

ID: UNS G10220

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                 |                 |                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------|-----------------|-------------------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b>                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |                 |                 |                                           |
| %: <b>5.0000 - 10.0000</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              | GreenScreen: <b>MULTIPLE</b> | RC: <b>None</b> | NANO: <b>No</b> | MATERIAL ROLE: <b>Structure component</b> |
| 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: [ <a href="#">UNS G10220</a> ]                                                                                                                                                                                                                                                                                                                                                          |                              |                 |                 |                                           |
| 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. |                              |                 |                 |                                           |

ALLOYING ELEMENTS

- Carbon (C)**  
CASRN: 7440-44-0  
Percentage: 0.17 % - 0.23 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

- Iron (Fe)**  
CASRN: 7439-89-6  
Percentage: 99.03 % - 99.48 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

- Manganese (Mn)**  
CASRN: 7439-96-5  
Percentage: 0.30 % - 0.60 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                       |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |

- Phosphorus (P)**  
CASRN: 7723-14-0  
Percentage: 0 % - 0.040 %  
Element Role: Alloy element  
GreenScreen Score: BM-2

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                        |
|---------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Cosmetics & Personal Care Products |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products          |

- Sulfur (S)**  
CASRN: 7704-34-9  
Percentage: 0 % - 0.050 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

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.

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

%: **0.0000 - 5.0000**      GreenScreen: **MULTIPLE**      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 C26000](#) ]

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.

ALLOYING ELEMENTS

- Copper**  
CASRN: 7440-50-8  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                       |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                      | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                             |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br>Antimicrobials                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                         |

- Zinc, elemental**  
CASRN: 7440-66-6  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                       |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br>Antimicrobials                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                         |
|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products        |

• **Lead (contaminant)**

CASRN: 7439-92-1

GreenScreen Score: BM-1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                                              |
|---------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                     | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                                                    |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                  | GSPI - Six Classes Precautionary List<br>Certain Metals                                                                                                                   |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Core Restrictions                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Formulated Consumer Products                                             |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Footwear, Apparel & Jewelry Products                                     |
| RESTRICTED LIST     | International Living Future Institute (ILFI)           | Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective February 1, 2025<br>Red List substances to avoid in Living Building Challenge V4.0 projects |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>All Products                                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Electronics (RoHS)                                                                  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                                             |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                                                |

• **Iron, elemental**

CASRN: 7439-89-6

GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

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 C78200 COPPER ALLOY

ID: UNS C78200

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

%: 0.0000 - 5.0000      GreenScreen: MULTIPLE      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 C78200](#) ]

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.

ALLOYING ELEMENTS

- Copper (Cu)**  
CASRN: 7440-50-8  
Percentage: 63 % - 67 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                       |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                      | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                             |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br>Antimicrobials                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                         |

- Iron (Fe)**  
CASRN: 7439-89-6  
Percentage: 0 % - 0.35 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

- Lead (Pb)**  
CASRN: 7439-92-1  
Percentage: 1.5 % - 2.5 %  
Element Role: Alloy element  
GreenScreen Score: BM-1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                                              |
|---------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                     | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                                                    |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                  | GSPI - Six Classes Precautionary List<br>Certain Metals                                                                                                                   |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Core Restrictions                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Formulated Consumer Products                                             |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Footwear, Apparel & Jewelry Products                                     |
| RESTRICTED LIST     | International Living Future Institute (ILFI)           | Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective February 1, 2025<br>Red List substances to avoid in Living Building Challenge V4.0 projects |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>All Products                                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Electronics (RoHS)                                                                  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                                             |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                                                |

- **Manganese (Mn)**

CASRN: 7439-96-5

Percentage: 0 % - 0.5 %

Element Role: Alloy element

GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                       |
|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |

- **Nickel (Ni)**

CASRN: 7440-02-0

Percentage: 7 % - 9 %

Element Role: Alloy element

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION                                                                                                                                       |
|---------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                    | GSPI - Six Classes Precautionary List<br>Certain Metals                                                                                            |
| 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>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>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>Footwear, Apparel & Jewelry Products              |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<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>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                         |

- Zinc (Zn)**  
CASRN: 7440-66-6  
Percentage: 24 % - 26 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

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 C36000 COPPER ALLOY

ID: UNS C36000

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

%: 0.0000 - 2.0000      GreenScreen: MULTIPLE      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 C36000](#) ]

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.

ALLOYING ELEMENTS

- Copper**

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                       |
|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                     | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                             |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                  | GSPI - Six Classes Precautionary List<br>Antimicrobials                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                         |

- **Zinc, elemental**

CASRN: 7440-66-6  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                       |
|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                  | GSPI - Six Classes Precautionary List<br>Antimicrobials                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |

- **Lead\*\***

CASRN: 7439-92-1  
GreenScreen Score: BM-1

**\*\* Score is reported for transparency but does not influence High Concern status due to threshold. \*\***

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                       |
|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                     | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                             |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                  | GSPI - Six Classes Precautionary List<br>Certain Metals                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Core Restrictions                                 |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |

| 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>Formulated Consumer 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>Footwear, Apparel & Jewelry Products                                     |
| RESTRICTED LIST     | International Living Future Institute (ILFI)             | Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective February 1, 2025<br>Red List substances to avoid in Living Building Challenge V4.0 projects |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<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>Electronics (RoHS)                                                                  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                                             |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                                                |

- Iron, elemental  
CASRN: 7439-89-6  
GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

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.

NYLON 6,6

ID: 32131-17-2

| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                      | HAZARD SCREENING DATE: 2026-02-03 20:57:53     |               |
|-----------------------------------------------------------|----------------------|------------------------------------------------|---------------|
| %: 0.0000 - 1.0000                                        | GreenScreen: LT-UNK  | RC: None                                       | NANO: Unknown |
| SUBSTANCE ROLE: Structure component                       |                      |                                                |               |
| 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: LUBRIBLEND PA 6/6 ML2 OR NYLTRON GS

UNS Z35636 ZINC ALLOY

ID: UNS Z35636

%: **0.0000 - 1.0000**      GreenScreen: **MULTIPLE**      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 Z35636](#) ]

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.

ALLOYING ELEMENTS

- **Aluminum (Al)**  
CASRN: 7429-90-5  
Percentage: 8 % - 8.8 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                       |
|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |

- **Copper (Cu)**  
CASRN: 7440-50-8  
Percentage: 0.8 % - 1.3 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                       |
|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                     | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                             |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                  | GSPI - Six Classes Precautionary List<br>Antimicrobials                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                         |

- **Iron (Fe)**  
CASRN: 7439-89-6  
Percentage: 0 % - 0.065 %  
Element Role: Alloy element

No listings found on Additional Hazard Lists

- **Lead (Pb)**

CASRN: 7439-92-1

Percentage: 0 % - 0.0050 %

Element Role: Alloy element

GreenScreen Score: BM-1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                                              |
|---------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                     | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                                                    |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                  | GSPI - Six Classes Precautionary List<br>Certain Metals                                                                                                                   |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Core Restrictions                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Formulated Consumer Products                                             |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Footwear, Apparel & Jewelry Products                                     |
| RESTRICTED LIST     | International Living Future Institute (ILFI)           | Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective February 1, 2025<br>Red List substances to avoid in Living Building Challenge V4.0 projects |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>All Products                                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Electronics (RoHS)                                                                  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                                             |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                                                |

- **Magnesium (Mg)**

CASRN: 7439-95-4

Percentage: 0.015 % - 0.030 %

Element Role: Alloy element

GreenScreen Score: LT-UNK

No listings found on Additional Hazard Lists

- **Tin (Sn)**

CASRN: 7440-31-5

Percentage: 0 % - 0.0020 %

Element Role: Alloy element

GreenScreen Score: LT-UNK

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

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION                                                                                                  |
|---------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products |

- Zinc (Zn)**  
CASRN: 7440-66-6  
Percentage: 89.79 % - 90.98 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

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: Pharos Chemical and Materials Library

%: 0.0000 - 1.0000      GreenScreen: MULTIPLE      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 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.

ALLOYING ELEMENTS

- Iron (Fe)**  
CASRN: 7439-89-6  
Percentage: 97.91 % - 98.7 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

- Manganese (Mn)**  
CASRN: 7439-96-5  
Percentage: 0.85 % - 1.15 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| 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>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>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>Children's Toy Products                                      |

- **Sulfur (S)**

CASRN: 7704-34-9  
 Percentage: 0.260 % - 0.35 %  
 Element Role: Alloy element  
 GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

- **Lead (Pb)**

CASRN: 7439-92-1  
 Percentage: 0.15 % - 0.35 %  
 Element Role: Alloy element  
 GreenScreen Score: BM-1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                                              |
|---------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                     | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                                                    |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                  | GSPI - Six Classes Precautionary List<br>Certain Metals                                                                                                                   |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Core Restrictions                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Formulated Consumer Products                                             |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Footwear, Apparel & Jewelry Products                                     |
| RESTRICTED LIST     | International Living Future Institute (ILFI)           | Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective February 1, 2025<br>Red List substances to avoid in Living Building Challenge V4.0 projects |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>All Products                                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Electronics (RoHS)                                                                  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                                             |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                                                |

- **Carbon (C)**

CASRN: 7440-44-0  
 Percentage: 0 % - 0.15 %  
 Element Role: Alloy element  
 GreenScreen Score: LT-UNK

|                     |                                       |                                                      |
|---------------------|---------------------------------------|------------------------------------------------------|
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                         |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List Antimicrobials |

- Phosphorus (P)**  
CASRN: 7723-14-0  
Percentage: 0.04 % - 0.09 %  
Element Role: Alloy element  
GreenScreen Score: BM-2

|                     |                                                         |                                                                                                                                     |
|---------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Cosmetics & Personal Care Products |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products          |

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 S30200 STAINLESS STEEL ALLOY

ID: UNS S30200

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

%: **0.0000 - 1.0000**      GreenScreen: **MULTIPLE**      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 S30200](#) ]

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.

ALLOYING ELEMENTS

- Carbon (C)**  
CASRN: 7440-44-0  
Percentage: 0 % - 0.15 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

|                     |                                       |                                                      |
|---------------------|---------------------------------------|------------------------------------------------------|
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                         |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List Antimicrobials |

- Chromium (Cr)**  
CASRN: 7440-47-3  
Percentage: 17 % - 19 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

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

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                       |
|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Cosmetics & Personal Care Products                |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                         |

- Iron (Fe)**  
CASRN: 7439-89-6  
Percentage: 69 % - 70 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

- Manganese (Mn)**  
CASRN: 7439-96-5  
Percentage: 0 % - 2 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                       |
|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |

- Nickel (Ni)**  
CASRN: 7440-02-0  
Percentage: 8 % - 10 %  
Element Role: Alloy element  
GreenScreen Score: LT-1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                       |
|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                  | GSPI - Six Classes Precautionary List<br>Certain Metals                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Footwear, Apparel & Jewelry Products              |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                               |
|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>All Products                         |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products              |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products |

- Phosphorus (P)**  
CASRN: 7723-14-0  
Percentage: 0 % - 0.045 %  
Element Role: Alloy element  
GreenScreen Score: BM-2

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                        |
|---------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Cosmetics & Personal Care Products |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products          |

- Silicon (Si)**  
CASRN: 7440-21-3  
Percentage: 0 % - 1 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

No listings found on Additional Hazard Lists

- Sulfur (S)**  
CASRN: 7704-34-9  
Percentage: 0 % - 0.03 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

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 G10950 STEEL ALLOY

ID: UNS G10950

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

%: 0.0000 - 1.0000      GreenScreen: MULTIPLE      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 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.

ALLOYING ELEMENTS

- Iron (Fe)**  
CASRN: 7439-89-6  
Percentage: 98.38 % - 98.8 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

- Carbon (C)**  
CASRN: 7440-44-0  
Percentage: 0.90 % - 1.03 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

- Sulfur (S)**  
CASRN: 7704-34-9  
Percentage: 0 % - 0.05 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

- Phosphorus (P)**  
CASRN: 7723-14-0  
Percentage: 0 % - 0.04 %  
Element Role: Alloy element  
GreenScreen Score: BM-2

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                        |
|---------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Cosmetics & Personal Care Products |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products          |

- Manganese (Mn)**  
CASRN: 7439-96-5  
Percentage: 0.30 % - 0.50 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                       |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |

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 C26800 COPPER ALLOY

ID: UNS C26800

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

%: 0.0000 - 1.0000      GreenScreen: MULTIPLE      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 C26800](#) ]

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.

ALLOYING ELEMENTS

- Copper (Cu)**  
CASRN: 7440-50-8  
Percentage: 64 % - 68.5 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                       |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                      | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                             |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br>Antimicrobials                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                         |

- Iron (Fe)**  
CASRN: 7439-89-6  
Percentage: 0 % - 0.05 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

- Lead (Pb)**  
CASRN: 7439-92-1  
Percentage: 0 % - 0.15 %  
Element Role: Alloy element  
GreenScreen Score: BM-1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                                              |
|---------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Perkins+Will (P+W)                                     | P&W - Precautionary List<br>Precautionary list of substances recommended for avoidance                                                                                    |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                  | GSPI - Six Classes Precautionary List<br>Certain Metals                                                                                                                   |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Core Restrictions                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Formulated Consumer Products                                             |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Footwear, Apparel & Jewelry Products                                     |
| RESTRICTED LIST     | International Living Future Institute (ILFI)           | Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective February 1, 2025<br>Red List substances to avoid in Living Building Challenge V4.0 projects |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>All Products                                                                        |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Electronics (RoHS)                                                                  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                                             |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                                                |

- **Zinc (Zn)**

CASRN: 7440-66-6

Percentage: 31.3 % - 36 %

Element Role: Alloy element

GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

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.

%: **0.0000 - 1.0000**      GreenScreen: **MULTIPLE**      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 S30430](#) ]

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.

ALLOYING ELEMENTS

- Carbon (C)**  
CASRN: 7440-44-0  
Percentage: 0 % - 0.08 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                         |
|---------------------|---------------------------------------|------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List Antimicrobials |

- Chromium (Cr)**  
CASRN: 7440-47-3  
Percentage: 18 % - 20 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                       |
|---------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Cosmetics & Personal Care Products                |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                         |

- Iron (Fe)**  
CASRN: 7439-89-6  
Percentage: 66.345 % - 74 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

No listings found on Additional Hazard Lists

- Manganese (Mn)**  
CASRN: 7439-96-5  
Percentage: 0 % - 2 %  
Element Role: Alloy element  
GreenScreen Score: LT-P1

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

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                       |
|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |

- **Nickel (Ni)**

CASRN: 7440-02-0

Percentage: 8 % - 10 %

Element Role: Alloy element

GreenScreen Score: LT-1

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                                       |
|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                  | GSPI - Six Classes Precautionary List<br>Certain Metals                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Footwear, Apparel & Jewelry Products              |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>All Products                                                 |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Children's Toy Products                                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products                         |

- **Phosphorus (P)**

CASRN: 7723-14-0

Percentage: 0 % - 0.045 %

Element Role: Alloy element

GreenScreen Score: BM-2

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION                                                                                                                        |
|---------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Cosmetics & Personal Care Products |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br>Cosmetics and Personal Care Products          |

- **Silicon (Si)**

CASRN: 7440-21-3

Percentage: 0 % - 1 %

Element Role: Alloy element

GreenScreen Score: LT-UNK

No listings found on Additional Hazard Lists

• **Sulfur (S)**  
CASRN: 7704-34-9  
Percentage: 0 % - 0.03 %  
Element Role: Alloy element  
GreenScreen Score: LT-UNK

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                            |
|---------------------|---------------------------------------|---------------------------------------------------------|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br>Antimicrobials |

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.

POLYVINYL CHLORIDE

ID: 9002-86-2

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2026-02-03 20:57:53

%: 0.0000 - 0.1000

GreenScreen: LT-P1

RC: None

NANO: Unknown

SUBSTANCE ROLE: Polymer species

| HAZARD TYPE         | LIST NAME AND SOURCE                                    | WARNINGS                                                                                                                                                                      |
|---------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAN                 | MAK                                                     | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels                                                                                              |
| MAM                 | GHS - Japan                                             | H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]                                                                       |
| MAM                 | GHS - Japan                                             | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]                     |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                                                  |
| RESTRICTED LIST     | Perkins+Will (P+W)                                      | P&W - Precautionary List<br><br>Precautionary list of substances recommended for avoidance                                                                                    |
| RESTRICTED LIST     | International Living Future Institute (ILFI)            | Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective February 1, 2025<br><br>Red List substances to avoid in Living Building Challenge V4.0 projects |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>Avoidance of Organohalogens and Functionally Related Chemical Classes of Concern    |

SUBSTANCE NOTES:

RUBBER, SYNTHETIC EPDM

ID: 308064-28-0

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2026-02-04 12:14:30

%: 0.0000 - 0.1000

GreenScreen: NoGS

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:    |                      |                                                |

### Section 3: Compliance

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

| VOC EMISSIONS                                | CDPH Standard Method - Not tested |                            |
|----------------------------------------------|-----------------------------------|----------------------------|
| COMPLIANCE TYPE: Self-declared               | ISSUE DATE: 2023-01-12            | EXPIRY DATE: No expiration |
| CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: None |                                   |                            |
| COMPLIANCE DETAILS:                          |                                   |                            |
| COMPLIANCE SCOPE:                            |                                   |                            |
| APPLICABLE FACILITIES: All facilities        |                                   |                            |
| COMPLIANCE URL:                              |                                   |                            |
| 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 is representative of the Schlage ALX Series and all product variations across the series have been evaluated for this HPD.

**MANUFACTURER INFORMATION**

MANUFACTURER: **Allegion**  
 ADDRESS: **3899 Hancock Expressway**  
**Colorado Springs, CO 80911**  
 COUNTRY: **USA**

WEBSITE: **www.allegion.com**  
 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 is not:*

- a method for the assessment of exposure or risk associated with product handling or use,*
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.*

*Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.*

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

*The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.*