Optimize™
by HNI Corporation

SCREENING DATE: 2026-10-13
PUBLISHED DATE: 2026-11-04
EXPIRY DATE: 2029-10-13
PREPARER: Self-Prepared
VERIFIER: WAP Sustainability
VERIFICATION #: zPr-29424

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

THIRD-PARTY VERIFIED

HPD UNIQUE IDENTIFIER: 70030879
HPD UNIQUE PRODUCT ID: Not provided.
CLASSIFICATION: 12 51 00.00 Furnishings: Office Furniture
PRODUCT TYPE: Commercial Furniture
PRODUCT DESCRIPTION: More than ever before, today's workplace must adapt to a wide range of needs and do so with grace and ease. Optimize makes that happen. It's an adaptable system offering variety of panel sizes, aesthetic choices, and worksurface shapes. Make the most of your workplace with Optimize.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format
→ Basic Method

Threshold Disclosed Per
→ Product

Threshold Level
→ 1,000 ppm

Residuals/Impurities Evaluation
→ Completed

Explanation(s) provided :
Yes

For all contents above the threshold, the manufacturer has:

Characterized Yes
Provided weight and role.

Screened Yes
Provided screening results using HPDC-approved methods.

Identified No
Provided name and CAS RN or other identifier.

CONTENT IN DESCENDING ORDER OF QUANTITY

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

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

OPTIMIZE™ [IRON, ELEMENTAL (IRON) LT-P1 | END WOOD FIBERS FIBERGLASS LT-UNK CELLULOSE, MICROCRYSTALLINE (CELLULOSE) LT-UNK ZINC, ELEMENTAL (ZINC) LT-UNK | PHY | AQU UREA, POLYMER WITH FORMALDEHYDE AND 1,3,5-TRIAZINE-2,4,6-TRIAMINE LT-UNK UNDISCLOSED NoGS UREA FORMALDEHYDE (UREA, POLYMER WITH FORMALDEHYDE) LT-P1 | SKI ALUMINUM LT-P1 | END | CAN | MAM | PHY UNDISCLOSED NoGS ELECTRICAL COMPONENT POLYETHYLENE TEREPHTHALATE (PET) (POLYETHYLENE TEREPHTHALATE) LT-UNK UREA LT-UNK | EYE CALCIUM CARBONATE BM-3 | EYE TITANIUM DIOXIDE BM-1 * | CAN | END | MAM MELAMINE/FORMALDEHYDE RESIN (1,3,5-TRIAZINE-2,4,6-TRIAMINE, POLYMER WITH FORMALDEHYDE) LT-UNK PULP, CELLULOSE NoGS MANGANESE LT-P1 | END | REP | MAM | AQU CARBON BLACK BM-1 * | CAN | EYE | MAM | PHY POLYSTYRENE LT-UNK POLYVINYL CHLORIDE LT-P1 | CAN | MAM]

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

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

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special Conditions applied: [BiologicalMaterial]
Special Conditions applied: [Electronics]

Any CAS numbers that have not been identified were given to HNI for hazard screening purposes only and are proprietary for their respective supplier(s).

*Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. For this reason, this score is intentionally omitted from the "Contents highest concern" line above. See HPDC's Special Conditions policy for more information.

PFAS DETAILS:

This product does **not** contain intentionally added PFAS and materials and substances from suppliers are verified to **not** contain PFAS.

Attestation:

Yuvakrish G

2026-05-07

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

COMPLIANCE *See Section 3 for additional listings.*

VOC emissions: SCS Indoor Advantage Gold - Furniture
Multi-attribute: BIFMA Furniture Sustainability Level 3 (e3-2019)

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1.
Pre-checked for LEED v4.1 Option 1.
Pre-checked for LEED v5 Human Health 1.

Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- *Basic Inventory method with Product-level threshold.*
- *Nested Material Inventory method with Product-level threshold*
- *Nested Material Inventory method with individual Material-level thresholds*

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 3.0, available on the HPDC website at: www.hpd-collaborative.org/hpd-3-0-standard

OPTIMIZE™

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: No Residuals or Impurities are expected to be present at or above the Content Inventory Threshold that return a GreenScreen score of BM-1, LT-1, LT-P1 or NoGS.

OTHER PRODUCT NOTES: Not applicable.

IRON, ELEMENTAL (IRON)

ID: 7439-89-6

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

HAZARD SCREENING DATE: **2026-10-13 3:46:36**

%: **43.1650 - 43.3770** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

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

SUBSTANCE NOTES: This element/CAS number comes from one or more of the following metal alloys:
Metal Grade & equivalent UNS:
1) AISI 1035 Steel - UNS G10350
2) 65SiCrV - UNS G92540
3) ADC 12 - UNS A03840
4) ASTM A228 - UNS K08500
5) S50C - UNS G10500
6) SAE 1022 - UNS G10220
7) SWP - UNS G10600
8) AISI O6 - UNS T31506
9) AISI 1006 Steel - UNS G10060
10) AISI 1065 Steel - UNS G10650
11) JIS G 3101 - UNS S30400
12) JIS S45C - UNS G10450
13) JIS SCM435 - UNS G41350
14) ASTM9260 - UNS G92600
15) SWRH82B - UNS G10450
16) Mo8Cr4V2 - UNS T11310
17) Q195A - UNS K02401
18) JIS G3141 SPCC - UNS G10080
19) JIS G3131 SPHC - UNS G10100
20) 1018 Steel - UNS G10180
21) Aluminum A380.1 - UNS A13801
22) AISI 52100 Steel - UNS G52986
23) AISI 1045 Steel - UNS G10450
24) Q235 - UNS K02600
25) AISI 9255 Steel - UNS G92550
26) AISI 1020 Steel - UNS G10200
27) AISI 12L14 Steel - UNS G12144
28) A572 Grade 50 steel - UNS K02306
29) Zamak 5 - UNS Z35531
30) SWRH 72A - UNS G10450
31) SWRH62A - UNS G10450
32) EN 10270-1 SH spring wire - UNS K08500
33) C45 steel - UNS G10450
34) 18-8 stainless steel - UNS S30400
35) EN 10270-1 SH - UNS K08500
36) 302 Stainless Steel - UNS S30200
37) ASTM A227 - UNS K06501
38) AISI 1010 Steel - UNS G10100

39) AISI 1008 Steel - UNS G10080
40) AISI 1022 Steel - UNS G10220
41) SAE 9254 - UNS G92540
42) 1215 Steel - UNS G12150
43) Zamak 3 - UNS Z33520
44) ASTM A228 - UNS K08500
45) JIS STKM12B - UNS G10080
46) JIS SCP2 - UNS F32800
47) JIS SM45C - UNS G41500
48) JIS SMF4030 - UNS S43000
49) JIS SM25C - UNS G102500
50) JIS SB41P - UNS T41901
51) 65MN - UNS G10650
52) JIS SM50C - UNS G10490
53) JIS SWRCH22A - UNS G10200
54) JIS SPS4 - UNS G41400
55) AISI 1040 Steel - UNS G10400
56) AISI 1038 Steel - UNS G10380
57) I-535-3800 - UNS G10200

WOOD FIBERS

ID: **Biological Material**

HAZARD DATA SOURCE: **HPDC Special Conditions Policy**

%: **21.0140 - 25.7150** GreenScreen: **Not Required** RC: **None** NANO: **No** MATERIAL ROLE: **Biological material**

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

BIOLOGICAL MATERIALS CATEGORY: Tree-based materials

INGREDIENT DESCRIPTION: Cellulose

MATERIAL CONTENT NOTES: This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

FIBERGLASS

ID: **65997-17-3**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-10-13 3:46:36**

%: **7.2900 - 7.2900** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

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

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions Exempted from REACH Annex V listing due to intrinsic safety
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v5.0 Product Standard Restricted Substances - Effective March 16, 2026 Cosmetics & Personal Care Products

SUBSTANCE NOTES:

CELLULOSE, MICROCRYSTALLINE (CELLULOSE)

ID: **9004-34-6**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-10-13 3:46:37**

%: **6.3300 - 6.3300** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

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

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

SUBSTANCE NOTES:

ZINC, ELEMENTAL (ZINC)

ID: **7440-66-6**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-10-13 3:46:37**

%: **5.4310 - 5.4750** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
PHY	GHS - New Zealand	Pyrophoric solids category 1
PHY	GHS - New Zealand	Self-heating substances and mixtures category 1
PHY	GHS - New Zealand	Substances and mixtures which, in contact with water, emit flammable gases category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 1

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 Children's Toy Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v5.0 Product Standard Restricted Substances - Effective March 16, 2026 Children's Toy Products

SUBSTANCE NOTES: This element/CAS number comes from one or more of the following metal alloys:
Metal Grade & equivalent UNS:
1) AISI 1035 Steel - UNS G10350
2) 65SiCrV - UNS G92540
3) ADC 12 - UNS A03840
4) ASTM A228 - UNS K08500
5) S50C - UNS G10500
6) SAE 1022 - UNS G10220
7) SWP - UNS G10600
8) AISI O6 - UNS T31506
9) AISI 1006 Steel - UNS G10060
10) AISI 1065 Steel - UNS G10650
11) JIS G 3101 - UNS S30400
12) JIS S45C - UNS G10450
13) JIS SCM435 - UNS G41350
14) ASTM9260 - UNS G92600
15) SWRH82B - UNS G10450
16) Mo8Cr4V2 - UNS T11310
17) Q195A - UNS K02401
18) JIS G3141 SPCC - UNS G10080
19) JIS G3131 SPHC - UNS G10100
20) 1018 Steel - UNS G10180
21) Aluminum A380.1 - UNS A13801
22) AISI 52100 Steel - UNS G52986
23) AISI 1045 Steel - UNS G10450
24) Q235 - UNS K02600
25) AISI 9255 Steel - UNS G92550
26) AISI 1020 Steel - UNS G10200
27) AISI 12L14 Steel - UNS G12144
28) A572 Grade 50 steel - UNS K02306
29) Zamak 5 - UNS Z35531

30) SWRH 72A - UNS G10450
31) SWRH62A - UNS G10450
32) EN 10270-1 SH spring wire - UNS K08500
33) C45 steel - UNS G10450
34) 18-8 stainless steel - UNS S30400
35) EN 10270-1 SH - UNS K08500
36) 302 Stainless Steel - UNS S30200
37) ASTM A227 - UNS K06501
38) AISI 1010 Steel - UNS G10100
39) AISI 1008 Steel - UNS G10080
40) AISI 1022 Steel - UNS G10220
41) SAE 9254 - UNS G92540
42) 1215 Steel - UNS G12150
43) Zamak 3 - UNS Z33520
44) ASTM A228 - UNS K08500
45) JIS STKM12B - UNS G10080
46) JIS SCP2 - UNS F32800
47) JIS SM45C - UNS G41500
48) JIS SMF4030 - UNS S43000
49) JIS SM25C - UNS G102500
50) JIS SB41P - UNS T41901
51) 65MN - UNS G10650
52) JIS SM50C - UNS G10490
53) JIS SWRCH22A - UNS G10200
54) JIS SPS4 - UNS G41400
55) AISI 1040 Steel - UNS G10400
56) AISI 1038 Steel - UNS G10380
57) I-535-3800 - UNS G10200

UREA, POLYMER WITH FORMALDEHYDE AND 1,3,5-TRIAZINE-2,4,6-TRIAMINE

ID: **25036-13-9**

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

HAZARD SCREENING DATE: **2026-10-13 3:46:38**

%: **0.0000 - 4.9770** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

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

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List 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 July 10, 2026 Red List substances to avoid in Living Building Challenge V4.0 projects

SUBSTANCE NOTES:

UNDISCLOSED

ID: **Undisclosed**

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

HAZARD SCREENING DATE: **2026-10-13 3:46:36**

%: **3.9700 - 4.6300** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

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: This is a proprietary substance provided by the supplier.

UREA FORMALDEHYDE (UREA, POLYMER WITH FORMALDEHYDE)

ID: **9011-05-6**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-10-13 3:46:36**

%: **0.0000 - 4.1480** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
SKI	GHS - New Zealand	Skin sensitisation category 1

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List Precautionary list of substances recommended for avoidance
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 All Products
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective July 10, 2026 Red List substances to avoid in Living Building Challenge V4.0 projects

SUBSTANCE NOTES:

ALUMINUM

ID: **7429-90-5**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-10-13 3:46:37**

%: **1.9130 - 1.9440** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
PHY	GHS - New Zealand	Flammable solids category 1
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
PHY	GHS - Japan	H261 - In contact with water releases flammable gas [Substances and mixtures, which in contact with water, emit flammable gases - Category 2]
PHY	GHS - Australia	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
PHY	GHS - New Zealand	Pyrophoric solids category 1

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 Children's Toy Products

RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v5.0 Product Standard Restricted Substances - Effective March 16, 2026 Children's Toy Products

SUBSTANCE NOTES: This element/CAS number comes from one or more of the following metal alloys:
Metal Grade & equivalent UNS:
1) AISI 1035 Steel - UNS G10350
2) 65SiCrV - UNS G92540
3) ADC 12 - UNS A03840
4) ASTM A228 - UNS K08500
5) S50C - UNS G10500
6) SAE 1022 - UNS G10220
7) SWP - UNS G10600
8) AISI O6 - UNS T31506
9) AISI 1006 Steel - UNS G10060
10) AISI 1065 Steel - UNS G10650
11) JIS G 3101 - UNS S30400
12) JIS S45C - UNS G10450
13) JIS SCM435 - UNS G41350
14) ASTM9260 - UNS G92600
15) SWRH82B - UNS G10450
16) Mo8Cr4V2 - UNS T11310
17) Q195A - UNS K02401
18) JIS G3141 SPCC - UNS G10080
19) JIS G3131 SPHC - UNS G10100
20) 1018 Steel - UNS G10180
21) Aluminum A380.1 - UNS A13801
22) AISI 52100 Steel - UNS G52986
23) AISI 1045 Steel - UNS G10450
24) Q235 - UNS K02600
25) AISI 9255 Steel - UNS G92550
26) AISI 1020 Steel - UNS G10200
27) AISI 12L14 Steel - UNS G12144
28) A572 Grade 50 steel - UNS K02306
29) Zamak 5 - UNS Z35531
30) SWRH 72A - UNS G10450
31) SWRH62A - UNS G10450
32) EN 10270-1 SH spring wire - UNS K08500
33) C45 steel - UNS G10450
34) 18-8 stainless steel - UNS S30400
35) EN 10270-1 SH - UNS K08500
36) 302 Stainless Steel - UNS S30200
37) ASTM A227 - UNS K06501
38) AISI 1010 Steel - UNS G10100
39) AISI 1008 Steel - UNS G10080
40) AISI 1022 Steel - UNS G10220
41) SAE 9254 - UNS G92540
42) 1215 Steel - UNS G12150
43) Zamak 3 - UNS Z33520
44) ASTM A228 - UNS K08500
45) JIS STKM12B - UNS G10080
46) JIS SCP2 - UNS F32800
47) JIS SM45C - UNS G41500
48) JIS SMF4030 - UNS S43000
49) JIS SM25C - UNS G102500
50) JIS SB41P - UNS T41901
51) 65MN - UNS G10650
52) JIS SM50C - UNS G10490
53) JIS SWRCH22A - UNS G10200
54) JIS SPS4 - UNS G41400
55) AISI 1040 Steel - UNS G10400
56) AISI 1038 Steel - UNS G10380
57) I-535-3800 - UNS G10200

UNDISCLOSED

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-10-13 3:46:37**

%: **1.3230 - 1.6540** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Brightener**

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: This is a proprietary substance provided by the supplier.

ELECTRICAL COMPONENT

ID: **Electronic Component**

HAZARD DATA SOURCE: **HPDC Special Conditions Policy**

%: **1.3200 - 1.3200** GreenScreen: **Not Required** RC: **None** NANO: **No** MATERIAL ROLE: **Electronic component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS

Hazard Screening is not applicable to this Special Condition

INGREDIENT DESCRIPTION: It is a junction box made of plastic and electronic components.

EU ROHS COMPLIANCE: Yes

END-OF-LIFE MANAGEMENT: No end-of-life management plan

MATERIAL CONTENT NOTES:

POLYETHYLENE TEREPHTHALATE (PET) (POLYETHYLENE TEREPHTHALATE)

ID: **25038-59-9**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-10-13 3:46:38**

%: **1.1960 - 1.2340** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

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

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

SUBSTANCE NOTES:

UREA

ID: **57-13-6**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-10-13 3:46:38**

%: **0.0410 - 0.8300** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Processing regulator**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
EYE	GHS - New Zealand	Eye irritation category 2

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

SUBSTANCE NOTES:

CALCIUM CARBONATE

ID: **471-34-1**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-10-13 3:46:39**

%: **0.3310 - 0.6620** GreenScreen: **BM-3** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
EYE	GHS - New Zealand	Eye irritation category 2

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

SUBSTANCE NOTES:

TITANIUM DIOXIDE

ID: **13463-67-7**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-11-04 14:37:12**

%: **0.0000 - 0.3320** GreenScreen: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Antioxidant**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen**
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route**
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources**
CAN	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value**
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor**
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels**
CAN	IARC	Group 2b - Possibly carcinogenic to humans**
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]**

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
POSITIVE LIST	US Environmental Protection Agency (US EPA)	US EPA - DfE Safer Chemical Ingredients list (SCIL) Colorants - Green Circle (Verified Low Concern)
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Cosmetics and Personal Care Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v5.0 Product Standard Restricted Substances - Effective March 16, 2026 Cosmetics & Personal Care Products

SUBSTANCE NOTES: **Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

MELAMINE/FORMALDEHYDE RESIN (1,3,5-TRIAZINE-2,4,6-TRIAMINE, POLYMER WITH FORMALDEHYDE)

ID: **9003-08-1**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-10-13 3:46:40**

%: **0.0000 - 0.3320** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Water resistance**

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

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 All Products
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List Flame Retardants
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective July 10, 2026 Red List substances to avoid in Living Building Challenge V4.0 projects

SUBSTANCE NOTES:

PULP, CELLULOSE

ID: **65996-61-4**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-10-13 3:46:40**

%: **0.2950 - 0.3020** GreenScreen: **NoGS** RC: **None** NANO: **No** 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
EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions Exempted from REACH Annex IV listing due to intrinsic safety

SUBSTANCE NOTES:

MANGANESE

ID: **7439-96-5**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-10-13 3:46:38**

%: **0.1690 - 0.2840** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 3
AQU	GHS - Japan	H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]
AQU	GHS - Japan	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]

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 Children's Toy Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v5.0 Product Standard Restricted Substances - Effective March 16, 2026 Children's Toy Products

SUBSTANCE NOTES: This element/CAS number comes from one or more of the following metal alloys:
Metal Grade & equivalent UNS:
1) AISI 1035 Steel - UNS G10350
2) 65SiCrV - UNS G92540
3) ADC 12 - UNS A03840
4) ASTM A228 - UNS K08500
5) S50C - UNS G10500
6) SAE 1022 - UNS G10220
7) SWP - UNS G10600
8) AISI O6 - UNS T31506
9) AISI 1006 Steel - UNS G10060
10) AISI 1065 Steel - UNS G10650
11) JIS G 3101 - UNS S30400
12) JIS S45C - UNS G10450
13) JIS SCM435 - UNS G41350
14) ASTM9260 - UNS G92600
15) SWRH82B - UNS G10450
16) Mo8Cr4V2 - UNS T11310
17) Q195A - UNS K02401
18) JIS G3141 SPCC - UNS G10080
19) JIS G3131 SPHC - UNS G10100
20) 1018 Steel - UNS G10180
21) Aluminum A380.1 - UNS A13801
22) AISI 52100 Steel - UNS G52986
23) AISI 1045 Steel - UNS G10450
24) Q235 - UNS K02600
25) AISI 9255 Steel - UNS G92550
26) AISI 1020 Steel - UNS G10200
27) AISI 12L14 Steel - UNS G12144
28) A572 Grade 50 steel - UNS K02306
29) Zamak 5 - UNS Z35531
30) SWRH 72A - UNS G10450
31) SWRH62A - UNS G10450
32) EN 10270-1 SH spring wire - UNS K08500
33) C45 steel - UNS G10450
34) 18-8 stainless steel - UNS S30400
35) EN 10270-1 SH - UNS K08500
36) 302 Stainless Steel - UNS S30200
37) ASTM A227 - UNS K06501
38) AISI 1010 Steel - UNS G10100
39) AISI 1008 Steel - UNS G10080
40) AISI 1022 Steel - UNS G10220
41) SAE 9254 - UNS G92540
42) 1215 Steel - UNS G12150
43) Zamak 3 - UNS Z33520
44) ASTM A228 - UNS K08500
45) JIS STKM12B - UNS G10080
46) JIS SCP2 - UNS F32800
47) JIS SM45C - UNS G41500
48) JIS SMF4030 - UNS S43000
49) JIS SM25C - UNS G102500
50) JIS SB41P - UNS T41901
51) 65MN - UNS G10650

52) JIS SM50C - UNS G10490
53) JIS SWRCH22A - UNS G10200
54) JIS SPS4 - UNS G41400
55) AISI 1040 Steel - UNS G10400
56) AISI 1038 Steel - UNS G10380
57) I-535-3800 - UNS G10200

CARBON BLACK

ID: **1333-86-4**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-10-13 3:46:39**

%: **0.0000 - 0.2770** GreenScreen: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen**
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification**
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route**
CAN	IARC	Group 2b - Possibly carcinogenic to humans**
EYE	GHS - New Zealand	Eye irritation category 2**
CAN	GHS - New Zealand	Carcinogenicity category 2**
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]**
CAN	GHS - Malaysia	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**
MAM	GHS - Malaysia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]**
PHY	GHS - Japan	H251 - Self-heating;; may catch fire [Self-heating substances and mixtures - Category 1]**
PHY	GHS - Malaysia	H251 - Self-heating: may catch fire [Self-heating chemicals category 1]**

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

SUBSTANCE NOTES: **Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

POLYSTYRENE

ID: **9003-53-6**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2026-10-13 3:46:40**

%: **0.1300 - 0.1300** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

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

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List Precautionary list of substances recommended for avoidance

SUBSTANCE NOTES:

POLYVINYL CHLORIDE

ID: **9002-86-2**

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

HAZARD SCREENING DATE: **2026-10-13 3:46:40**

%: **0.1300 - 0.1300** GreenScreen: **LT-P1** RC: **None** NANO: **No** 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 Precautionary list of substances recommended for avoidance
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List Flame Retardants
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective July 10, 2026 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 Avoidance of Organohalogens and Functionally Related Chemical Classes of Concern

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 — **SCS Indoor Advantage Gold - Furniture**

COMPLIANCE TYPE: Third-party certification
ISSUE DATE: 2026-01-01
EXPIRY DATE: 2026-12-31
CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: SCS Global Services
COMPLIANCE DETAILS:
COMPLIANCE SCOPE: Product Line
APPLICABLE FACILITIES: All HNI Facilities.
COMPLIANCE URL: https://ecomedes-library.s3.us-west-2.amazonaws.com/scs/scs-SCS-IAQ-03801-2026-12-31-54b663e8-ccb5-4162-b5ff-9125d151d1a5.pdf
COMPLIANCE NOTES:

MULTI-ATTRIBUTE — **BIFMA Furniture Sustainability Level 3 (e3-2019)**

COMPLIANCE TYPE: Third-party certification
ISSUE DATE: 2025-12-01
EXPIRY DATE: 2028-05-31
CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: SCS Global Services
COMPLIANCE DETAILS:
COMPLIANCE SCOPE: Product Line
APPLICABLE FACILITIES: All HNI Facilities
COMPLIANCE URL:
https://www.scscertified.com/products/cert_pdfs/Allsteel_2025_SCS-SCF-04087_s.pdf
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

Not Applicable .

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **HNI Corporation**
ADDRESS: **600 E 2nd St**
Muscatine, IOWA 52761
COUNTRY: **United States**

WEBSITE: **https://www.hnicorp.com/**
CONTACT NAME: **Eddie Ergican**
TITLE: **Vice President**
PHONE: **563-449-2828**
EMAIL: **ErgicanE@hniworkplacefurnishings.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

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

GreenScreen (GS)

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

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, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

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

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

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

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard 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.