

HPD UNIQUE IDENTIFIER: 21147

CLASSIFICATION: 12 51 00.00 Furnishings: Office Furniture

PRODUCT DESCRIPTION: A design driven by Humanscale’s passion for the environment, the Liberty Side chair was created to push the boundaries of minimalism found in the Liberty task chair and be as simple and environmentally friendly as possible, without sacrificing Humanscale's philosophy of complete, automatic comfort. Niels Diffrient developed the Liberty Side to showcase the same complete-body comfort found in Humanscale task chairs, but made with lightweight, recyclable and long-lasting materials.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold level

- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Other

Residuals/Impurities

Residuals/Impurities Considered in 1 of 8 Materials

Explanation(s) provided for Residuals/Impurities?

- Yes No

All Substances Above the Threshold Indicated Are:

Characterized Yes Ex/SC Yes No
% weight and role provided for all substances.

Screened Yes Ex/SC Yes No
All substances screened using Priority Hazard Lists with results disclosed.

Identified Yes Ex/SC Yes No
All substances disclosed by Name (Specific or Generic) and 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.

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

ALUMINIUM A380.0-F [ALUMINUM (ALUMINUM) BM-1 | RES | PHY | END
SILICON LT-UNK COPPER LT-P1 | MUL ZINC LT-P1 | AQU | PHY | END |
MUL MANGANESE LT-P1 | END | MUL | REP TIN LT-UNK NICKEL LT-1 |
RES | CAN | SKI | MAM | MUL] RECYCLED NYLON [NYLON 6 (POST-
CONSUMER) LT-UNK] MESH MONOFILAMENT STRIPE BLACK [
TETRAHYDROFURAN LT-P1 | EYE | CAN | END | PHY NYLON 6 LT-UNK
POLYETHYLENE TEREPHTHALATE (PET) LT-UNK] TPU [POLYURETHANE
LT-P1] ARM PAD BASE [PROPYLENE BM-U | PHY | END ETHYLENE LT-
UNK | PHY | CAN] NYLON 6 [HEXANEDIOIC ACID, POLYMER WITH
HEXAHYDRO-2H-AZEPIN-2-ONE AND 1,6-HEXANEDIAMINE LT-UNK
POLYETHYLENE LT-UNK ZINC STEARATE LT-P1] POLYURETHANE FOAM
[POLYURETHANE FOAMS LT-UNK] STEEL [STEEL NoGS]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

The inventory threshold is 100ppm of product.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: SCS Indoor Advantage Gold - Classroom & Office scenario
Multi-attribute: BIFMA Furniture Sustainability Level 3 (e3-2014)

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes

PREPARER: Self-Prepared

VERIFIER:

SCREENING DATE: 2020-07-28

PUBLISHED DATE: 2020-07-28



Section 2: Content in Descending Order of Quantity

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

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

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

ALUMINIUM A380.0-F

%: 56.0400 - 56.0400

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Metal

RESIDUALS AND IMPURITIES NOTES: Potential residuals and impurities have been tested.

OTHER MATERIAL NOTES:

ALUMINUM (ALUMINUM)

ID: 7429-90-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-07-28

%: 80.0000 - 80.2500

GS: BM-1

RC: None

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H250 - Catches fire spontaneously if exposed to air

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H261 - In contact with water releases flammable gases

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: Percentage range is based on the material grade.

SILICON

ID: 7440-21-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-07-28

%: 7.5000 - 9.5000

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Percentage range is based on the material grade.

COPPER

ID: 7440-50-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-07-28

%: **3.0000 - 4.0000**

GS: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: **Percentage range is based on the material grade.**

ZINC

ID: **7440-66-6**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-28**

%: **3.0000 - 3.0000**

GS: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: **Alloy Element**

MANGANESE

ID: **7439-96-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-28**

%: **0.5000 - 0.5000**

GS: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
REPRODUCTIVE	GHS - Japan	Toxic to reproduction - Category 1B [H360]

SUBSTANCE NOTES: **Alloy Element**

TIN

ID: **7440-31-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-28**

#: 0.0000 - 0.3500

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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None found		No warnings found on HPD Priority Hazard Lists
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SUBSTANCE NOTES: Percentage range is based on the material grade.

NICKEL

ID: 7440-02-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-07-28

#: 0.0000 - 0.5000

GS: LT-1

RC: None

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
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CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
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CANCER	IARC	Group 2b - Possibly carcinogenic to humans
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CANCER	CA EPA - Prop 65	Carcinogen
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CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
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CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen
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CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
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SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
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CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
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ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
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MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
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CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
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RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
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SUBSTANCE NOTES: Percentage range is based on the material grade.

RECYCLED NYLON

#: 38.7200 - 38.7200

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are not considered.

OTHER MATERIAL NOTES: This is 100% recycled glass filled nylon.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-28**

#: **100.0000 - 100.0000**

GS: **LT-UNK**

RC: **Both**

NANO: **No**

SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

MESH_MONOFILAMENT STRIPE BLACK

#: 2.0900 - 2.0900

PRODUCT THRESHOLD: **100 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **No**

MATERIAL TYPE: **Polymeric Material**

RESIDUALS AND IMPURITIES NOTES: **Residuals and impurities are not considered.**

OTHER MATERIAL NOTES:

TETRAHYDROFURAN

ID: 109-99-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2020-07-28**

%: **68.1700 - 68.1700** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour

SUBSTANCE NOTES: **Thermoplastic Elastomer****NYLON 6**

ID: 25038-54-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2020-07-28**

%: **19.2100 - 19.2100** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Yarn resin****POLYETHYLENE TEREPHTHALATE (PET)**

ID: 25038-59-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2020-07-28**

%: **11.3150 - 11.3150** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Yarn resin****TPU**%: **1.3700 - 1.3700**PRODUCT THRESHOLD: **100 ppm**RESIDUALS AND IMPURITIES CONSIDERED: **No**MATERIAL TYPE: **Polymeric Material**

RESIDUALS AND IMPURITIES NOTES: **Residuals and impurities are not considered.**

OTHER MATERIAL NOTES:

POLYURETHANE

ID: **64440-88-6**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-28**

#: **100.0000 - 100.0000**

GS: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

ARM PAD BASE

#: **0.7700 - 0.7700**

PRODUCT THRESHOLD: **100 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **No**

MATERIAL TYPE: **Polymeric Material**

RESIDUALS AND IMPURITIES NOTES: **Residuals and impurities are not considered.**

OTHER MATERIAL NOTES:

PROPYLENE

ID: 115-07-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-28**

#: **89.0000 - 94.5000**

GS: **BM-U**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H220 - Extremely flammable gas
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: **Base resin**

ETHYLENE

ID: 74-85-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-28**

#: **5.0000 - 10.0000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Stabilizer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H220 - Extremely flammable gas
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES:

NYLON 6

#: **0.5600 - 0.5600**

PRODUCT THRESHOLD: **100 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **No**

MATERIAL TYPE: **Polymeric Material**

RESIDUALS AND IMPURITIES NOTES: **Residuals and impurities are not considered.**

OTHER MATERIAL NOTES:

HEXANEDIOIC ACID, POLYMER WITH HEXAHYDRO-2H-AZEPIN-2-ONE AND 1,6-HEXANEDIAMINE

ID: 24993-04-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-28**

#: **97.9900 - 97.9900**

GS: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

POLYETHYLENE

ID: 9002-88-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-28**

#: **2.0000 - 2.0000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Stabilizer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

ZINC STEARATE

ID: 557-05-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-28**

#: **0.0100 - 0.0100**

GS: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Lubricant**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Modifier**

POLYURETHANE FOAM

#: **0.4000 - 0.4000**

PRODUCT THRESHOLD: **100 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **No**

MATERIAL TYPE: **Polymeric Material**

RESIDUALS AND IMPURITIES NOTES: **Residuals and impurities are not considered.**

OTHER MATERIAL NOTES:

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-28**

#: **99.7250 - 100.0000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Substance range is estimated based on the residual level.**

STEEL

#: **0.0400 - 0.0400**

PRODUCT THRESHOLD: **100 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **No**

MATERIAL TYPE: **Metal**

RESIDUALS AND IMPURITIES NOTES: **Residuals and impurities are not considered.**

OTHER MATERIAL NOTES:

STEEL

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2020-07-28**

#: **100.0000 - 100.0000**

GS: **NoGS**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

Section 3: Certifications and Compliance

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

VOC EMISSIONS

SCS Indoor Advantage Gold - Classroom & Office scenario

CERTIFYING PARTY: Third Party

ISSUE DATE: 2019-

EXPIRY DATE: 2020-

CERTIFIER OR LAB: SCS Global

APPLICABLE FACILITIES: Piscataway, NJ, USA Fresno, CA, USA Nogales, Sonora, Mexico Dublin, Leinster, Dublin

11-01

10-31

Services

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

MULTI-ATTRIBUTE

BIFMA Furniture Sustainability Level 3 (e3-2014)

CERTIFYING PARTY: Third Party

ISSUE DATE: 2018-

EXPIRY DATE: 2021-

CERTIFIER OR LAB: SCS Global

APPLICABLE FACILITIES: Piscataway, NJ, USA Fresno, CA, USA Nogales, Sonora, Mexico

09-04

10-31

Services

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

Legal Notice: This HPD lists only those known chemical ingredients in the Liberty Side chair as provided by Humanscale's suppliers, and that account for 0.01% or more of the total chair components. The listing of materials in this HPD represents all material ingredients based on Humanscale's supplier disclosures and is not based on independent testing to confirm the presence of absence of any specific chemical components. Accordingly, the Liberty Side may contain certain chemicals that are not listed herein. Additionally, as the hazards information provided herein was generated under license using the HPDC Online Builder, Humanscale does not warrant that the hazard information or health effects provided by HPDC or its Authoritative Hazard List are accurate or apply to every context in which the chemicals may be used.



MANUFACTURER INFORMATION

MANUFACTURER: **Humanscale**

ADDRESS: **220 Circle Dr N**

Piscataway Township NJ 08854, USA

WEBSITE:

[http://www.humanscale.com/products/product.cfm?](http://www.humanscale.com/products/product.cfm?group=LibertySideChair)

group=LibertySideChair

CONTACT NAME: **Humanscale Sustainability**

TITLE: **Humanscale Sustainability**

PHONE: **(732) 537-2944**

EMAIL: **betterworld@Humanscale.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 (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)

NoGS No GreenScreen.

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 v2.1 is not:

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

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

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

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