

CLASSIFICATION: 12 60 00 Furnishings: Multiple Seating

PRODUCT DESCRIPTION: Emeco and Morrison together, designed and engineered The Alfi Collection with the conviction that what you don't see is as important as what you do see. Alfi reflects Emeco and Morrison's common appreciation for the invisible qualities behind simplicity. Made of reclaimed and responsibly selected materials, engineered for comfort and strength, and designed to be humble and timeless, Alfi embodies these hidden values. Alfi seats are made primarily of reclaimed post-industrial polypropylene and wood fiber. This record covers all colors and variations of benches available in The Alfi Collection, including both Low Back and High Back versions. Seats available in five colors: Sand, Dark Grey, Red, Dark Brown, and Green. Wood available in Natural or Dark Ash.

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
- Per OSHA MSDS
- Other

Residuals/Impurities

Residuals/Impurities Considered in 7 of 7 Materials

- Explanation(s) provided for Residuals/Impurities?
- Yes No

Are All Substances Above the Threshold Indicated:

Characterized Yes No
Percent Weight and Role Provided?

Screened Yes No
Using Priority Hazard Lists with Results Disclosed?

Identified Yes No
Name and Identifier Provided?

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

ALFI BASE [ASH NoGS] ALFI SEAT [POLYPROPYLENE LT-UNK WOOD FIBER - UNSPECIFIED NoGS POLYETHYLENE LT-UNK UNDISCLOSED LT-UNK TITANIUM DIOXIDE LT-1 | CAN | END 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER, POLYMER WITH 2-METHYL-2-PROPENITRILE AND 2-PROPENITRILE NoGS ETHYLENE VINYL ACETATE POLYMER (EVA) LT-UNK TITANIUM, [2,2-BIS[(2-PROPENYLOXY)METHYL] -1-BUTANOLATO-O,O',O'']TRIS(DIOCTYL PHOSPHATO-O'')- (TITANIUM, [2,2-BIS[(2-PROPENYLOXY)METHYL] -1-BUTANOLATO-O,O',O'']TRIS(DIOCTYL PHOSPHATO-O'')-) LT-UNK PUMICE (PUMICE) LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED BM-2 | CAN] SEAT-TO-FRAME HARDWARE [IRON (IRON) LT-P1 | END] SEAT-TO-FRAME FASTENERS [STEEL NoGS ZINC LT-P1 | AQU | END | MUL | PHY] CHAIR GLIDES [UNDISCLOSED LT-UNK POLYMETHYL METHACRYLATE (PMMA) (POLYMETHYL METHACRYLATE (PMMA)) LT-P1 | RES ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER LT-UNK UNDISCLOSED NoGS] WOOD LACQUER GLIDE FASTENERS [STAINLESS STEEL NoGS]

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

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

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight. Therefore, this HPD qualifies for the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1). Substances not "Identified" are those considered proprietary to suppliers, or are those without a registered identifier.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*

VOC emissions: Intertek ETL Environmental VOC+

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

Yes

No

PREPARER: **Self-Prepared**

VERIFIER:

VERIFICATION #:

SCREENING DATE: **2018-04-13**

PUBLISHED DATE: **2018-05-10**

EXPIRY DATE: **2021-04-13**



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 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

ALFI BASE

#: 35.1000 - 39.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Includes legs and frames. Percent by weight of material and substances reported as ranges due to the various seating options available in The Alfi Collection.

ASH

ID: Not registered

#: 100.0000 - 100.0000

GS: NoGS

RC: None

NANO: No

ROLE: Legs; Frame

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is considered essentially inert for the purposes of Pharos toxics scoring (Pharos CML).

ALFI SEAT

#: 29.2000 - 36.4000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals or impurities with the potential to be present at or above the Content Inventory Threshold indicated that return a GS score of BM-1, LT-1, LT-P1 or NoGS have been disclosed, as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Percent by weight of material and substances reported as ranges due to the various seating options available in The Alfi Collection.

POLYPROPYLENE

ID: 9003-07-0

#: 81.6000 - 91.2000

GS: LT-UNK

RC: PreC

NANO: No

ROLE: Bioplastic Substrate

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). 100% of polypropylene used is reclaimed post-industrial waste obtained directly from plastic producer worksites. Specific guidelines are being created to

address known issues related to transparency and disclosure for several materials ("Special Conditions"), including "Plastics and Polymers" and "Recycled content – mixtures". This HPD will be updated as appropriate when these guidelines become available.

WOOD FIBER - UNSPECIFIED

ID: **Not registered**

#: **4.8000 - 14.4000** GS: **NoGS** RC: **PreC** NANO: **No** ROLE: **Bioplastic Substrate**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Substance encapsulated in resin of finished product. Secondary supplier states the following: "raw material used for wood flour/fiber production is sourced from secondary wood manufacturers in the form of fiber by-products. Such sources include facilities that manufacture moldings, flooring, wood windows and doors, and other wood products. Also, we do not utilize any "treated" wood fiber for production of our wood fibers/flour." Percent by weight disclosed as range in order to protect supplier's proprietary formulation.

POLYETHYLENE

ID: **9002-88-4**

#: **1.1000 - 2.3000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Additive Carrier**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

#: **0.5000 - 1.5000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Coupling Agent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists with results disclosed.

TITANIUM DIOXIDE

ID: **13463-67-7**

#: **0.1000 - 0.5000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

MAK

Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List. Substance encapsulated in resin of finished product. Form-specific hazards: airborne particles of respirable size – occupational setting. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials (“Special Conditions”), including those with Form-Specific Hazards such as Titanium Dioxide. This HPD will be updated as appropriate when these guidelines become available. The Material Health Harmonization Task Group convened by the USGBC states that pigmentary titanium dioxide was “determined to be Benchmark 2 using the full GS (GreenScreen) method” (<http://ow.ly/Z5ken>).

2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER, POLYMER WITH 2-METHYL-2-PROPENENITRILE AND 2-PROPENENITRILE

ID: 38742-70-0

#: 0.0500 - 0.5000 GS: NoGS RC: None NANO: No ROLE: Blowing Agent Component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ETHYLENE VINYL ACETATE POLYMER (EVA)

ID: 24937-78-8

#: 0.0400 - 0.4000 GS: LT-UNK RC: None NANO: No ROLE: Blowing Agent Component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

TITANIUM, [2,2-BIS[(2-PROPENYLOXY)METHYL] -1-BUTANOLATO-O,O',O'']TRIS(DIOCTYL PHOSPHATO-O'')- (TITANIUM, [2,2-BIS[(2-PROPENYLOXY)METHYL] -1-BUTANOLATO-O,O',O'']TRIS(DIOCTYL PHOSPHATO-O'')-)

ID: 110438-25-0

#: 0.0200 - 0.2000 GS: LT-UNK RC: None NANO: No ROLE: Polymer Additive

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

PUMICE (PUMICE)

ID: 1332-09-8

#: 0.0200 - 0.2000 GS: LT-UNK RC: None NANO: No ROLE: Polymer Additive

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern).

%: **0.0000 - 0.4000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Substance encapsulated in resin of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists with results disclosed.

%: **0.0000 - 0.2000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Substance encapsulated in resin of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists with results disclosed. This substance falls below the Content Inventory Threshold indicated for the finished product.

%: **0.0000 - 0.2000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Substance encapsulated in resin of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists with results disclosed. This substance falls below the Content Inventory Threshold indicated for the finished product.

%: **0.0000 - 0.4000** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

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

SUBSTANCE NOTES: Substance encapsulated in resin of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists with results disclosed.

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Provides stability for seat-to-frame connection.

IRON (IRON)

ID: 7439-89-6

#: 100.0000 - 100.0000 GS: LT-P1 RC: None NANO: No ROLE: Cast Iron Hardware

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: Non-steel iron alloy. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including Metal Alloys such as Cast Iron. This HPD will be updated as appropriate when these guidelines become available.

SEAT-TO-FRAME FASTENERS

#: 2.8000 - 3.1000

HPD URL:

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Zinc-plated steel screws and washers used to attach Alfi Seats to Alfi Base.

STEEL

ID: 12597-69-2

#: 98.0000 - 98.0000 GS: NoGS RC: None NANO: No ROLE: Base Metal

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is considered essentially inert for the purposes of Pharos toxics scoring (Pharos CML).

ZINC

ID: 7440-66-6

#: 2.0000 - 2.0000 GS: LT-P1 RC: None NANO: No ROLE: Metallic Coating

HAZARDS:

AGENCY(IES) WITH 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

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

PHYSICAL HAZARD (REACTIVE) EU - GHS (H-Statements)

H250 - Catches fire spontaneously if exposed to air

PHYSICAL HAZARD (REACTIVE) EU - GHS (H-Statements)

H260 - In contact with water releases flammable gases which may ignite spontaneously

SUBSTANCE NOTES: Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with Form-Specific Hazards such as Zinc. This HPD will be updated as appropriate when these guidelines become available. This substance falls below the Content Inventory Threshold indicated for the finished product.

CHAIR GLIDES

%: 0.1000 - 0.2000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS, as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Attached to Alfi Base with Glide Fasteners.

%: 35.0000 - 40.0000

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **TPU Component**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists with results disclosed.

POLYMETHYL METHACRYLATE (PMMA) (POLYMETHYL METHACRYLATE (PMMA))

ID: 9011-14-7

%: 28.0000 - 33.0000

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Thermoplastic Resin**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES:

ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER

ID: 9003-56-9

%: 16.0000 - 21.0000

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Impact Resistance**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance falls below the Content Inventory Threshold indicated for the finished product.

%: **5.0000 - 10.0000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **TPU Component**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists with results disclosed.

WOOD LACQUER

%: **0.0500 - 0.2000**

HPD URL:

PRODUCT THRESHOLD: **1000 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS AND IMPURITIES NOTES: **As all substances in this material fall below the Content Inventory Threshold indicated, no residuals or impurities are possible above this level.**

OTHER MATERIAL NOTES: **All substances in this material are below the reportable threshold, as confirmed by supplier.**

GLIDE FASTENERS

%: **0.0300 - 0.0400**

HPD URL:

PRODUCT THRESHOLD: **1000 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS AND IMPURITIES NOTES: **No residuals or impurities are expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS, as predicted by process chemistry (Pharos CML).**

OTHER MATERIAL NOTES: **Hardware used to attach Chair Glides to Alfi Base.**

STAINLESS STEEL

ID: **12597-68-1**

%: **100.0000 - 100.0000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Hardware**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: **18-8 Stainless Steel. This substance is considered essentially inert for the purposes of Pharos toxics scoring (Pharos CML). This substance falls below the Content Inventory Threshold indicated for the finished product.**

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

Intertek ETL Environmental VOC+

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2018-**

EXPIRY DATE:

CERTIFIER OR LAB: **Intertek**

APPLICABLE FACILITIES: **Emeco Industries, Hanover PA, 17331**

04-27

CERTIFICATE URL:

<http://www.intertek.com/directories/environmental-sustainability-solutions/etl-voc/>

CERTIFICATION AND COMPLIANCE NOTES: **Conforms to the ANSI/ BIFMA X7.1-2011 Standard for Formaldehyde and TVOC Emissions of Low-emitting Office Furniture Systems and Seating, ANSI/ BIFMA M7.1-2011 Standard Test Method for Determining VOC Emissions from Office Furniture Systems, Components and Seating, and ANSI/ BIFMA e3-2014e Furniture Sustainability Standard Credits 7.6.1, 7.6.2 and 7.6.3 Low Emitting Furniture for Office Furniture Systems and Components emission criteria. Credit 7.6.3 demonstrates compliance to California Department of Public Health (CDPH) Standard Method v1.2 01350 (2017).**

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.

ALFI SOFT SLIPCOVER

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

The optional Alfi Soft slip-cover is intelligently designed for easy dressing and removing, while it also offers the comfort and look of a perfectly fitted, fully upholstered seat. It can be retro-fitted on existing chairs and stools, or ordered as an option for new chairs. Alfi Soft comes in fabric and leather - select from our wide standard range or choose your own. Please contact manufacturer for additional information.

Section 5: General Notes

We make chairs. In America. Often by hand. Mostly from recycled stuff. But always to last. www.emeco.net



MANUFACTURER INFORMATION

MANUFACTURER: **emeco**

ADDRESS: **805 Elm Avenue**

Hanover PA 17331, USA

WEBSITE: **http://www.emeco.net**

CONTACT NAME: **Gregg Buchbinder**

TITLE: **CEO**

PHONE: **(717) 637-5951**

EMAIL: **gregg@emeco.net**

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

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

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

MAM Mammalian/systemic/organ toxicity

MUL Multiple hazards

NEU Neurotoxicity

OZO Ozone depletion

PBT Persistent Bioaccumulative Toxic

PHY Physical Hazard (reactive)

REP Reproductive toxicity

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

LAN Land Toxicity

NF Not found on Priority Hazard Lists

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 (insufficient data to benchmark)

LT-P1 List Translator Possible Benchmark 1

LT-1 List Translator Likely Benchmark 1

LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

NoGS Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)

PostC Postconsumer

Both Both Preconsumer and Postconsumer

Unk Inclusion of recycled content is unknown

None Does not include recycled content

Other Terms

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.