

# AFIRMA™ Hardback Tile, AFIRMA II™ Hardback Tile, EliteFlex Broadloom by Bentley Mills, Inc.

## Health Product Declaration v2.1.1

created via: HPDC Online Builder

**CLASSIFICATION:** 09 68 13.00 **FINISHES:** TILE CARPETING  
**PRODUCT DESCRIPTION:** HARD-BACK CARPET TILE THAT ALLOWS FOR DESIGN AND AESTHETIC FLEXIBILITY. THIS HPD COVERS ALL PRODUCTS OFFERED ON BENTLEY MILLS' AFIRMA™ HARDBACK TILE, AFIRMA II™ HARDBACK TILE, AND ELITEFLEX™ BROADLOOM BACKING PLATFORMS, WHICH ALL HAVE BOTH COLOR AND STYLE VARIATIONS.

### Section 1: Summary Basic Method / Product Threshold

#### CONTENT INVENTORY

<b>Inventory Reporting Format</b> <input type="radio"/> Nested Materials Method <input checked="" type="radio"/> Basic Method	<b>Threshold level</b> <input type="radio"/> 100 ppm <input checked="" type="radio"/> 1,000 ppm <input type="radio"/> Per GHS SDS <input type="radio"/> Per OSHA MSDS <input type="radio"/> Other	<b>Residuals/Impurities</b> <input checked="" type="radio"/> Considered <input type="radio"/> Partially Considered <input type="radio"/> Not Considered  <small>Explanation(s) provided for Residuals/Impurities?</small> <input checked="" type="radio"/> Yes <input type="radio"/> No	<i>All Substances Above the Threshold Indicated Are:</i>  <b>Characterized</b> <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No <i>% weight and role provided for all substances.</i>  <b>Screened</b> <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No <i>All substances screened using Priority Hazard Lists with results disclosed.</i>  <b>Identified</b> <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No <i>One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.</i>
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#### 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**

AFIRMA™ HARDBACK TILE, AFIRMA II™ HARDBACK TILE, ELITEFLEX BROADLOOM [ LIMESTONE; CALCIUM CARBONATE (LIMESTONE; CALCIUM CARBONATE) LT-UNK NYLON 6,6 (NYLON 6,6) LT-UNK LIMESTONE, CALCIUM CARBONATE (POST-CONSUMER) LT-UNK POLYETHYLENE TEREPHTHALATE (PET) LT-UNK ETHYLENE VINYL ACETATE POLYMER (EVA) LT-UNK ETHYLENE/METHYL ACRYLATE RESIN (ETHYLENE/METHYL ACRYLATE RESIN) LT-UNK POLYETHYLENE (POLYETHYLENE) LT-UNK ETHYLENE VINYL ACETATE POLYMER (EVA) LT-UNK ALUMINA TRIHYDRATE (ALUMINA TRIHYDRATE) BM-2 | RES WATER (WATER) BM-4 UNDISCLOSED LT-UNK ROSIN, POLYMER WITH PHENOL AND TALL-OIL ROSIN LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-UNK MAGNESIUM CARBONATE BASIC (PRIMARY CASRN IS 39409-82-0) NoGS UNDISCLOSED LT-UNK QUARTZ (QUARTZ) LT-1 | CAN CARBON BLACK LT-1 | CAN TITANIUM DIOXIDE LT-1 | CAN | END UNDISCLOSED NoGS ]

Number of Greenscreen BM-4/BM3 contents ... 1  
Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1  
Nanomaterial ... No

**INVENTORY AND SCREENING NOTES:**  
Bentley Mills, Inc. has prepared this HPD and assessed to ingredient disclosure level of 1,000 ppm. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 ppm threshold. Due to the proprietary nature of the information, the name and CAS number for certain chemicals have been redacted from this substance entry.

#### 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: CRI Green Label Plus - Carpets  
VOC emissions: CRI Green Label Plus - Carpets  
Multi-attribute: Cradle to Cradle Certified - Silver (V3.1)  
Other: ILFI Declare - LBC Compliant

Third Party Verified?

Yes

No

PREPARER: **Self-Prepared**

VERIFIER: **SCS Global Services**

VERIFICATION #: **qGE-3648**

SCREENING DATE: **2020-02-07**

PUBLISHED DATE: **2020-02-28**

EXPIRY DATE: **2023-02-07**



## 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 2.1.1, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-1-standard](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

### AFIRMA™ HARDBACK TILE, AFIRMA II™ HARDBACK TILE, ELITEFLEX BROADLOOM

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED:

Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were considered based on best practices of raw material suppliers and Bentley Mills' participation in the Carpet and Rug Institutes's Green Label Plus program.

OTHER PRODUCT NOTES: This HPD covers AFIRMA Hardback Tile, AFIRMA II Hardback Tile, and EliteFlex Broadloom models in all available color and style variations; regardless of the dye method.

#### LIMESTONE; CALCIUM CARBONATE (LIMESTONE; CALCIUM CARBONATE)

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-02-07

#: 22.00 - 28.00

GS: LT-UNK

RC: PreC

NANO: No

ROLE: Coating and Backing Filler

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Pre-Consumer recycled content is utilized during the manufacturing process of this ingredient. A minimum of 90% of the limestone ore used is derived from the by-product of a separation technology. This rejected material does not meet minimum specifications for use as a raw feed material for production and thus is treated as "waste".

#### NYLON 6,6 (NYLON 6,6)

ID: 32131-17-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-02-07

#: 20.00 - 30.00

GS: LT-UNK

RC: None

NANO: No

ROLE: Face Fiber (Structure)

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

#### LIMESTONE, CALCIUM CARBONATE (POST-CONSUMER)

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-02-07

%: **9.00 - 12.00** GS: **LT-UNK** RC: **PostC** NANO: **No** ROLE: **Filler**

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

SUBSTANCE NOTES: Recycled carpet is the source of the post consumer recycled material.

### POLYETHYLENE TEREPHTHALATE (PET)

ID: 25038-59-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-07**

%: **6.00 - 13.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Backing**

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

SUBSTANCE NOTES:

### ETHYLENE VINYL ACETATE POLYMER (EVA)

ID: 24937-78-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-07**

%: **6.00 - 12.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Latex Base, Backing, and Filler**

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

SUBSTANCE NOTES:

### ETHYLENE/METHYL ACRYLATE RESIN (ETHYLENE/METHYL ACRYLATE RESIN)

ID: 25103-74-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-07**

%: **5.00 - 7.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pre-coat**

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

SUBSTANCE NOTES:

### POLYETHYLENE (POLYETHYLENE)

ID: 9002-88-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-07**

%: **3.00 - 6.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Laminate**

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

### ETHYLENE VINYL ACETATE POLYMER (EVA)

ID: 24937-78-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-02-07		
%: 3.00 - 6.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Filler
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES:				

### ALUMINA TRIHYDRATE (ALUMINA TRIHYDRATE)

ID: 21645-51-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-02-07		
%: 2.00 - 5.00	GS: BM-2	RC: None	NANO: No	ROLE: Binder Component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RESPIRATORY	AOEC - Asthmagens	Asthmagens (Rs) - sensitizer-induced		
SUBSTANCE NOTES:				

### WATER (WATER)

ID: 7732-18-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-02-07		
%: 2.00 - 6.00	GS: BM-4	RC: None	NANO: No	ROLE: Backing
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES:				

### UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-02-07		
%: 1.89 - 1.89	GS: LT-UNK	RC: None	NANO: No	ROLE: Backing

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

SUBSTANCE NOTES: Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance entry.

### ROSIN, POLYMER WITH PHENOL AND TALL-OIL ROSIN

ID: 68648-57-7

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2020-02-07</b>		
%: <b>1.00 - 3.00</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Coating</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES:

### UNDISCLOSED

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2020-02-07</b>		
%: <b>0.50 - 1.50</b>	GS: <b>NoGS</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Pigment</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

### UNDISCLOSED

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2020-02-07</b>		
%: <b>0.46 - 0.46</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Backing</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

### MAGNESIUM CARBONATE BASIC (PRIMARY CASRN IS 39409-82-0)

ID: 39456-66-1

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2020-02-07</b>		
%: <b>Impurity/Residual</b>	GS: <b>NoGS</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

### UNDISCLOSED

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

HAZARD SCREENING DATE: **2020-02-07**

#: **0.10 - 0.70**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Coating**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

### QUARTZ (QUARTZ)

ID: **14808-60-7**

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

HAZARD SCREENING DATE: **2020-02-07**

#: **0.10 - 1.00**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Backing**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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CANCER IARC Group 1 - Agent is Carcinogenic to humans

CANCER US CDC - Occupational Carcinogens Occupational Carcinogen

CANCER CA EPA - Prop 65 Carcinogen - specific to chemical form or exposure route

CANCER IARC Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources

CANCER US NIH - Report on Carcinogens Known to be Human Carcinogen (respirable size - occupational setting)

CANCER MAK Carcinogen Group 1 - Substances that cause cancer in man

CANCER GHS - New Zealand 6.7A - Known or presumed human carcinogens

CANCER GHS - Japan Carcinogenicity - Category 1A [H350]

CANCER GHS - Australia H350i - May cause cancer by inhalation

SUBSTANCE NOTES:

### CARBON BLACK

ID: **1333-86-4**

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

HAZARD SCREENING DATE: **2020-02-07**

#: 0.00 - 2.00

GS: LT-1

RC: None

NANO: No

ROLE: Pigment

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

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

CANCER

MAK

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

SUBSTANCE NOTES:

### TITANIUM DIOXIDE

ID: 13463-67-7

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

HAZARD SCREENING DATE: **2020-02-07**

#: 0.00 - 2.00

GS: LT-1

RC: None

NANO: No

ROLE: Pigment

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

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

CANCER

MAK

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

CANCER

MAK

Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES:

### UNDISCLOSED

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

HAZARD SCREENING DATE: **2020-02-07**

#: 0.00 - 0.90

GS: NoGS

RC: None

NANO: No

ROLE: fiber finish

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.



## 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

### CRI Green Label Plus - Carpets

CERTIFYING PARTY: Third Party  
ISSUE DATE: 2013-05-24  
EXPIRY DATE: 2020-09-30  
CERTIFIER OR LAB: CRI (Green Label Plus)

APPLICABLE FACILITIES: 14641 Don Julian Rd City of Industry CA US 91746

CERTIFICATE URL: <https://services.carpet-rug.org/api/GLPCertificate/8866>

CERTIFICATION AND COMPLIANCE NOTES: For 6Y Postdyed Nylon with Amorphous Resin Backing. Certificate number: GLP8866. Conformance: Product complies with CDPH Section 01350 Versions 1.1 and 1.2, Private Office Scenario.

### VOC EMISSIONS

### CRI Green Label Plus - Carpets

CERTIFYING PARTY: Third Party  
ISSUE DATE: 2013-05-24  
EXPIRY DATE: 2020-09-30  
CERTIFIER OR LAB: CRI (Green Label Plus)

APPLICABLE FACILITIES: 14641 Don Julian Rd City of Industry CA US 91746

CERTIFICATE URL: <https://services.carpet-rug.org/api/GLPCertificate/1853>

CERTIFICATION AND COMPLIANCE NOTES: 14X Predyed Nylon with Amorphous Resin Backing. Certification Number: GLP1853. Conformance: Product complies with CDPH Section 01350 Versions 1.1 and 1.2, Private Office Scenario.

### MULTI-ATTRIBUTE

### Cradle to Cradle Certified - Silver (V3.1)

CERTIFYING PARTY: Third Party  
ISSUE DATE: 2018-03-01  
EXPIRY DATE: 2020-02-29  
CERTIFIER OR LAB: MBDC

APPLICABLE FACILITIES: All facilities.

CERTIFICATE URL: [http://www.bentleymills.com/wp-content/uploads/2018/03/Bentl\\_AFFIX\\_Silve\\_CERT3433\\_2018-03-01.pdf](http://www.bentleymills.com/wp-content/uploads/2018/03/Bentl_AFFIX_Silve_CERT3433_2018-03-01.pdf)

CERTIFICATION AND COMPLIANCE NOTES: Certification number: 3433. Product conforms to Cradle 2 Cradle Silver criteria, includes material health, material reutilization, renewable energy and carbon management, water stewardship, social fairness.

### OTHER

### ILFI Declare - LBC Compliant

CERTIFYING PARTY: Self-declared  
ISSUE DATE: 2017-04-30  
EXPIRY DATE: 2020-09-01  
CERTIFIER OR LAB: ILFI

APPLICABLE FACILITIES: 14641 Don Julian Rd City of Industry CA US 91746

CERTIFICATE URL: <https://living-future.org/declare-products/afirma-hardback-tile/>

CERTIFICATION AND COMPLIANCE NOTES: AFIRMA™ Hardback Tile - Living Building Challenge Compliant

### MULTI-ATTRIBUTE

### NSF/ANSI 140-2015 Sustainability Assessment for Carpet Standard - Gold

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2017-**

EXPIRY DATE:

CERTIFIER OR LAB: **NSF**

APPLICABLE FACILITIES: **All facilities.**

**11-22**

**2020-12-31**

**International**

CERTIFICATE URL:

<http://info.nsf.org/Certified/Sustain/ProdCert/C0002413-115.pdf>

CERTIFICATION AND COMPLIANCE NOTES: **Certification #C0002413-115 at the Gold level covers all solution dyed and COLORCAST™ dyed carpet product variations on AFIRMA™ Hardback Tile.**

## 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.

### **HEALTHBOND 2300 ULTRA ADHESIVE**

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Bentley Mills, Inc. recommends adhesive should be utilized to aid in the proper installation of AFIRMA™ Hardback Tile products and to ensure the product warranty.

## Section 5: General Notes

This product has undergone a Cradle to Cradle Certified™ Certification evaluation and has achieved a Silver level certification. The assessment is conducted by an accredited assessor with expertise in toxicology and chemistry. Companies pursuing certification commit to phasing out problematic ingredients that have been identified. The material health score indicates how much progress has been made in optimizing the product. Bentley's standard broadloom, High PerformancePC, tile products, AFIRMA Hardback, and NexStep® Cushion have been certified at the Silver Level under version 3.1. Beauty. Service. Quality. Partnership. For over 30 years, these tenants have driven Bentley™ - California's largest carpet design and manufacturing corporation. Our award-winning broadloom, carpet tile, and area rug products exude high performance and have earned superior Textile Appearance Retention Ratings (TARR), Cradle to Cradle Certified™, Green Label Plus certification and NSF-140 Gold and Platinum certifications. Bentley manufactures in a LEED for Existing Buildings Gold Certified facility and is a multi-year recipient of the GSA Evergreen Award. This product also makes the claim to be Living Building Challenge Compliant covering all patterns and colors.



## MANUFACTURER INFORMATION

MANUFACTURER: **Bentley Mills, Inc.**  
 ADDRESS: **14641 Don Julian Rd**  
**City of Industry California 91746, United States**  
 WEBSITE: **http://www.bentleymills.com**

CONTACT NAME: **David Turkes**  
 TITLE: **Director of Sustainability**  
 PHONE: **6269342005**  
 EMAIL: **david.turkes@bentleymills.com**

## 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

<b>AQU</b> Aquatic toxicity	<b>GLO</b> Global warming	<b>PHY</b> Physical Hazard (reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive toxicity
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple hazards	<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>OZO</b> Ozone depletion	<b>LAN</b> Land Toxicity
<b>GEN</b> Gene mutation	<b>PBT</b> Persistent Bioaccumulative Toxic	<b>NF</b> Not found on Priority Hazard Lists

### GreenScreen (GS)

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-P1</b> List Translator Possible Benchmark 1
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-1</b> List Translator Likely Benchmark 1
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>LT-UNK</b> List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	<b>NoGS</b> Unknown (no data on List Translator Lists)
<b>BM-U</b> Benchmark Unspecified (insufficient data to benchmark)	

### 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.*