UltraBac® RE Broadloom Carpet
by Mannington Mills

CLASSIFICATION: 09 68 16

PRODUCT DESCRIPTION: Mannington’s broadloom backing, UltraBac® RE, affords both environmental and performance attributes. UltraBac® RE contains a minimum of 10% post-consumer recycled content by total product weight and is certified NSF/ANSI-140 Platinum. All products on UltraBac® RE are backed with a lifetime non-prorated warranty to not edge ravel, zipper or delaminate.

Section 1: Summary

Basic 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
- Considered
- Partially Considered
- Not Considered

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.

INVENTORY AND SCREENING NOTES:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>VERIFIER:</td>
<td>PUBLISHED DATE: 2018-06-27</td>
</tr>
<tr>
<td>No</td>
<td>VERIFICATION #:</td>
<td>EXPIRY DATE: 2021-06-27</td>
</tr>
</tbody>
</table>

UltraBac RE Broadloom Carpet
hpdrepository.hpd-collaborative.org

HPD v2.1 created via HPDC Builder Page 2 of 11
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](http://www.hpd-collaborative.org/hpd-2-1-standard)

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**ULTRABAC® RE BROADLOOM CARPET**

<table>
<thead>
<tr>
<th>PRODUCT THRESHOLD: 1000 ppm</th>
<th>RESIDUALS AND IMPURITIES CONSIDERED: Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were considered and those that fall above threshold are included.</td>
<td></td>
</tr>
<tr>
<td>OTHER PRODUCT NOTES: A range is given for the substances due to variances in face weight and to protect the proprietary nature of the formulation.</td>
<td></td>
</tr>
</tbody>
</table>

**NYLON 6,6 (POLY[(IMINO(1,6-DIOXO-1,6-HEXANEDIYL))IMINO-1,6-HEXANEDIYL])**

<table>
<thead>
<tr>
<th>%: 30.0000 - 40.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Face Fiber [ALT]</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARDS: None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation.</td>
<td></td>
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</tr>
</tbody>
</table>

**NYLON 6 (POLY[HEXANO-6-LACTAM])**

<table>
<thead>
<tr>
<th>%: 30.0000 - 40.0000</th>
<th>GS: LT-UNK</th>
<th>RC: Both</th>
<th>NANO: No</th>
<th>ROLE: Face Fiber [ALT]</th>
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</thead>
<tbody>
<tr>
<td>HAZARDS: None Found</td>
<td>No warnings found on HPD Priority lists</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation. Recycled content comes from manufacturing waste streams and post-consumer sources being sent to the supplier.</td>
<td></td>
<td></td>
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</tr>
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</table>

**LIMESTONE; CALCIUM CARBONATE**

<table>
<thead>
<tr>
<th>%: 15.0000 - 25.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Secondary Backing</th>
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</thead>
<tbody>
<tr>
<td>HAZARDS: None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Substance</td>
<td>ID</td>
<td>%:</td>
<td>GS:</td>
<td>RC:</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------</td>
<td>-------------</td>
<td>-----</td>
<td>----------</td>
</tr>
<tr>
<td>STYRENE BUTADIENE RUBBER (SBR)</td>
<td>9003-55-8</td>
<td>15.000 - 20.000</td>
<td>LT-UNK</td>
<td>None</td>
</tr>
<tr>
<td>CALCIUM CARBONATE</td>
<td>471-34-1</td>
<td>5.000 - 10.000</td>
<td>BM-3</td>
<td>PostC</td>
</tr>
<tr>
<td>POLYPROPYLENE</td>
<td>9003-07-0</td>
<td>5.000 - 10.000</td>
<td>LT-UNK</td>
<td>None</td>
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<tr>
<td>MAGNESIUM OXIDE</td>
<td>1309-48-4</td>
<td>1.000 - 3.000</td>
<td>LT-UNK</td>
<td>PostC</td>
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<tr>
<td>QUARTZ</td>
<td>14808-60-7</td>
<td>Impurity/Residual</td>
<td>LT-1</td>
<td>None</td>
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### ALUMINUM OXIDE

**ID:** 1344-28-1

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<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0000 - 2.0000</td>
<td>LT-P1</td>
<td>PostC</td>
<td>No</td>
<td>Secondary Backing</td>
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</tbody>
</table>

**HAZARDS:**

**RESPIRATORY**

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

**SUBSTANCE NOTES:** A range is given due to variances in face weight and to protect the proprietary nature of the formulation. Recycled content comes from used construction products being sent to the supplier.

### ALUMINA TRIHYDRATE

**ID:** 21645-51-2

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1000 - 1.0000</td>
<td>BM-2</td>
<td>None</td>
<td>No</td>
<td>Secondary Backing</td>
</tr>
</tbody>
</table>

**HAZARDS:**

**RESPIRATORY**

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

**SUBSTANCE NOTES:** A range is given due to variances in face weight and to protect the proprietary nature of the formulation.

### TITANIUM DIOXIDE

**ID:** 13463-67-7

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
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<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1000 - 1.0000</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Face Fiber</td>
</tr>
</tbody>
</table>

**HAZARDS:**

**CANCER**

US CDC - Occupational Carcinogens

Occupational Carcinogen

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>AGENCY(IES) WITH WARNINGS</th>
<th>HAZARDS</th>
<th>SUBSTANCE NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ANATASE TITANIUM DIOXIDE</strong></td>
<td>1317-70-0</td>
<td>0.1000 - 1.0000</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Face Fiber</td>
<td>US CDC - Occupational Carcinogens, CA EPA - Prop 65, IARC Group 2B</td>
<td>None</td>
<td>A range is given due to variances in face weight and to protect the proprietary nature of the formulation.</td>
</tr>
<tr>
<td><strong>PHOSPHINIC ACID, MANGANESE(2++) SALT (2:1)</strong></td>
<td>10043-84-2</td>
<td>0.1000 - 1.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Face Fiber</td>
<td>None</td>
<td>No warnings found on HPD Priority lists</td>
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<tr>
<td><strong>CASTOR OIL, ETHOXYLATED, DIOLEATE, MINIMUM NUMBER AVERAGE MOLECULAR WEIGHT (IN AMU), 1260</strong></td>
<td>110531-96-9</td>
<td>0.1000 - 1.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Face Fiber</td>
<td>None</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
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<tr>
<td><strong>POLY(OXY-1,2-ETHANEDIYL), ALPHA-METHYL-OMEGA-(2-PROPEN-1-YLOXY)</strong></td>
<td>27252-80-8</td>
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</tbody>
</table>
%: 0.1000 - 1.0000  GS: LT-UNK  RC: None  NANO: No  ROLE: Face Fiber

HAZARDS: AGENCY(IES) WITH WARNINGS:
None Found  No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation.

BUTANEDIOIC ACID, 2-(OCTEN-1-YL)-, POTASSIUM SALT (1:2)  ID: 58641-28-4

%: 0.1000 - 1.0000  GS: NoGS  RC: None  NANO: No  ROLE: Face Fiber

HAZARDS: AGENCY(IES) WITH WARNINGS:
None Found  No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation.

FATTY ACIDS, TALL-OIL, ETHOXYLATED PROPOXYLATED  ID: 67784-86-5

%: 0.1000 - 1.0000  GS: LT-UNK  RC: None  NANO: No  ROLE: Face Fiber

HAZARDS: AGENCY(IES) WITH WARNINGS:
None Found  No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation.

SILOXANES AND SILICONES, DI-ME, 3-HYDROXYPROPYL ME, ETHERS WITH POLYETHYLENE GLYCOL MONO-ME ETHER  ID: 68938-54-5

%: 0.1000 - 1.0000  GS: LT-P1  RC: None  NANO: No  ROLE: Face Fiber

HAZARDS: AGENCY(IES) WITH WARNINGS:
None Found  No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation.

COCONUT OIL  ID: 8001-31-8

%: 0.1000 - 1.0000  GS: NoGS  RC: None  NANO: No  ROLE: Face Fiber

HAZARDS: AGENCY(IES) WITH WARNINGS:
None Found  No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation.

2-PROPENOIC ACID, 2-METHYL-, POLYMER WITH ETHYL 2-
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>%:</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPENOATE, SODIUM SALT</td>
<td></td>
<td>0.1000 - 1.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Secondary Backing</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
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<tr>
<td>SUBSTANCE NOTES:</td>
<td>A range is given due to variances in face weight and to protect the proprietary nature of the formulation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FATTY ACIDS, C16-18 AND C18-UNSATD., BRANCHED AND LINEAR, ETHOXYLATED</td>
<td>96349-73-4</td>
<td>0.1000 - 1.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Primary Backing</td>
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<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
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</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td>A range is given due to variances in face weight and to protect the proprietary nature of the formulation.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>POTASSIUM HYDROXIDE</td>
<td>1310-58-3</td>
<td>0.1000 - 1.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Face Fiber</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td>SKIN IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H314 - Causes severe skin burns and eye damage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td>A range is given due to variances in face weight and to protect the proprietary nature of the formulation.</td>
<td></td>
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<td></td>
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<tr>
<td>STARCH</td>
<td>9005-25-8</td>
<td>0.1000 - 1.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Secondary Backing</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
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<td>SUBSTANCE NOTES:</td>
<td>A range is given due to variances in face weight and to protect the proprietary nature of the formulation.</td>
<td></td>
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</tbody>
</table>
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

<table>
<thead>
<tr>
<th>CERTIFYING PARTY</th>
<th>CERTIFICATE URL</th>
<th>ISSUE DATE</th>
<th>EXPIRY DATE</th>
<th>CERTIFIER OR LAB</th>
</tr>
</thead>
</table>

**CERTIFICATION AND COMPLIANCE NOTES:** GLP2278

### MULTI-ATTRIBUTE

<table>
<thead>
<tr>
<th>CERTIFYING PARTY</th>
<th>CERTIFICATE URL</th>
<th>ISSUE DATE</th>
<th>EXPIRY DATE</th>
<th>CERTIFIER OR LAB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Third Party</td>
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<td>2015-07-01</td>
<td>2021-06-30</td>
<td>SCS Global Services</td>
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**CERTIFICATION AND COMPLIANCE NOTES:** SCS-SCC-01524

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.

### ULTRA ADHESIVE

**HPD URL:** No HPD Available

**CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:**

Ultra Solvent-Free, Premium Carpet Adhesive is a high solid, white latex based adhesive formulated specifically to provide superior bonding strength for installing Mannington latex and polyurethane backed carpets. Ultra Adhesive is freeze thaw stable, and has permanent antimicrobial protection. Ultra Adhesive is the appropriate adhesive for installing Mannington’s UltraBac® RE products. Ultra Adhesive may be used for installations over concrete subfloors with up to 5 pounds moisture vapor emissions as determined by Calcium Chloride Test (ASTM F 1869), or 80% relative humidity (ASTM F 2170) and pH of 9. Installation instructions and SDS documentation can be found at www.manningtoncommercial.com.

### M-GUARD ULTRA ADHESIVE

**HPD URL:** No HPD Available

**CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:**

M-Guard Ultra Premium Carpet Adhesive is a solvent-free, very high solids ultra premium commercial carpet adhesive, formulated specifically to provide superior bonding strength for installing Mannington latex and polyurethane backed carpets. M-Guard Ultra is freeze thaw stable and has permanent antimicrobial protection. M-Guard Ultra may be used for installations over concrete subfloors with up to 8 pounds moisture vapor emissions as determined by Calcium Chloride Test (ASTM F 1869), or 90% relative humidity (ASTM F 2170) and pH of 10. Installation instructions and SDS documentation can be found at www.manningtoncommercial.com.

Section 5: General Notes
Residuals and impurities were considered for all raw materials and those that show up above the stated threshold were listed.
MANUFACTURER INFORMATION

MANUFACTURER: Mannington Mills
ADDRESS: 1844 US Highway 41 S.E.
Calhoun GA 30701, USA
WEBSITE: www.manningtoncommercial.com

CONTACT NAME: Dave Kitts
TITLE: VP - Environment
PHONE: 856-339-5871
EMAIL: dave_kitts@mannington.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

AQU Aquatic toxicity
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation

GLO Global warming
MAM Mammalian/systemic 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.