Elegance Architectural Pavers & Wall Blocks by Unilock

CLASSIFICATION: 32 14 00 Exterior Improvements: Unit Paving

PRODUCT DESCRIPTION: Unilock’s manufacturing teams have an unrelenting commitment to shipping only top quality products. Every Unilock product is durable, made with colorfast pigments, slip resistant, resistant to salt erosion, and designed to tolerate oil and gas spills. This HPD covers all Courtstone, Copthone, Riverstone, TownHall, Rivercrest and Ledgestone products. Also includes CSI MasterFormats 32 14 13 Precast Concrete Unit Paving; 32 32 00 Retaining Walls; 32 32 23 Segmental Retaining Walls.

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

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 except SC substances characterized according to SC guidance.
- Screened
  - Yes Ex/SC
  - Yes
  - No
- All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.
- Identified
  - Yes Ex/SC
  - Yes
  - No
- All substances disclosed by Name (Specific or Generic) and Identifier except SC substances identified according to SC guidance.

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

ELEGANCE ARCHITECTURAL PAVERS & WALL BLOCKS | SC:NATURAL SAND | Not Screened
SC:MIXED AGGREGATE | Not Screened
PORTLAND CEMENT LT-P1 | END
CAN BLAST FURNACE SLAG LT-UNK | QUARTZ LT-1
| CAN SILICA, AMORPHOUS LT-P1 | CAN SULFUR TRIOXIDE LT-P1 | MAM IRON OXIDE LT-UNK | CAN CALCIUM OXIDE LT-P1 | LIMESTONE, CALCIUM CARBONATE LT-UNK | FERRIC OXIDE LT-1 | CAN | CARBON BLACK LT-1 | CAN | END FERRIC OXIDE YELLOW LT-UNK

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: CDPH Standard Method – Not tested

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Number of Greenscreen BM-4/BM3 contents ... 0
Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1
Nonmaterial ... No

INVENTORY AND SCREENING NOTES:
Special conditions applied: GeologicalMaterial

[LEED v4] “Yes ex/SC” result is due only to materials and substances for which Special Conditions were applied. Thus “Yes ex/SC” does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1.1, 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.

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER: 
VERIFICATION #: 
SCREENING DATE: 2019-11-25
PUBLISHED DATE: 2019-12-17
EXPIRY DATE: 2022-11-25
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

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**ELEGANCE ARCHITECTURAL PAVERS & WALL BLOCKS**

**PRODUCT THRESHOLD:** 1000 ppm  
RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were “Considered”, as outlined in Emerging Best Practices. 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, based on information provided in supplier disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML).

OTHER PRODUCT NOTES: Percent by weight of substances reported as range to account for formulation variations between product lines and manufacturing facilities.

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**SC:NATURAL SAND**  
ID: SC:GeoMat

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2019-11-25

<table>
<thead>
<tr>
<th>%: 25.00 - 55.00</th>
<th>GS: Not Screened</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Aggregate</th>
</tr>
</thead>
</table>

HAZARD TYPE  
AGENCY AND LIST TITLES  
WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:  
Version: SCGeoMats/2018-02-23  
Origin: Ontario, Canada  
Typical Composition: Varies by supplier/type: Quartz/Silica (14808-60-7) range reported <66-100%; also reported: <26% Tridymite (15468-32-3); <13% Christobalite (14464-46-1); Limestone (1317-65-3): 0-15%  
Potential presence of toxic metals: None indicated by suppliers  
Presence of Radioactive Elements: None indicated by suppliers  
Includes fine sand, course sand, asphalt sand, and concrete sand from multiple suppliers.

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**SC:MIXED AGGREGATE**  
ID: SC:GeoMat

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2019-11-25

<table>
<thead>
<tr>
<th>%: 23.00 - 42.00</th>
<th>GS: Not Screened</th>
<th>RC: PreC</th>
<th>NANO: No</th>
<th>ROLE: Aggregate</th>
</tr>
</thead>
</table>

HAZARD TYPE  
AGENCY AND LIST TITLES  
WARNINGS

Hazard Screening not performed
**SUBSTANCE NOTES:**

**Version:** SCGeoMats/2018-02-23  
**Origin:** Ontario, Canada  
**Typical Composition:** Limestone (1317-65-3): 0-15%; Silicon dioxide (14808-60-7): >1%; Other composition information: Aggregate from limestone, granite, sand and gravel are naturally occurring mineral complexes that contain varying quantities of quartz (crystalline silica). Other forms of Crystalline Silica (e.g., tridymite and cristobalite) may also be present or formed under certain industrial processes.

Potential presence of toxic metals: None indicated by suppliers  
Presence of Radioactive Elements: None indicated by suppliers

Aggregate materials used in the manufacture of bricks, mortar, cement, concrete, plasters, paving materials and other constructions materials. Other means of identification: Limestone; Sand & Gravel; Granite; Recycled Concrete Aggregate (RCA). Recycled Concrete Aggregate (RCA) is a granular base material produced by reclaiming existing hydraulic cement concrete and processing the materials to make a new aggregate.

### PORTLAND CEMENT

**ID:** 65997-15-1

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-11-25

<table>
<thead>
<tr>
<th>%: 10.00 - 20.00</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Cement Binder</th>
</tr>
</thead>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

#### ENDOCRINE

TEDX - Potential Endocrine Disruptors  
Potential Endocrine Disruptor

#### CANCER

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

**SUBSTANCE NOTES:** Includes Portland cement and white cement from multiple suppliers. From supplier documentation: "Cement is made from materials mined from the earth and processed using energy provided by fuels. Additional materials, such as fly ash, kiln dust and slag may also be introduced into the cement manufacturing process. A chemical analysis of cement may reveal trace amounts of naturally occurring but potentially harmful chemical compounds such as free crystalline silica, organic compounds, potassium and sodium compounds, heavy metals including cadmium, chromium (including hexavalent chromium), nickel and lead. Other trace constituents may include calcium oxide (also known as free lime or quick lime) and organic compounds from grinding aids such as amine acetate salts, glycols and 1,2-ethanediol."

### BLAST FURNACE SLAG

**ID:** 65996-69-2

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-11-25

<table>
<thead>
<tr>
<th>%: 1.00 - 26.00</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Cement Binder</th>
</tr>
</thead>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

None found  
No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Slag cement. Other means of identification: GGBFS; Ground Granulated Blast Furnace Cement. Industrial uses in manufacture of concrete, portland cement, blended cement and other building and construction materials. Supplier documentation states: The majority of components in Granulated Blast Furnace Slag are various glassy Metallic Silicates (Iron, Calcium, Magnesium, Aluminum, and Titanium Silicates), including: Dicalcium Silicate (Ca2SiO4) 14284-23-2, Merwinitite (Ca3MgSi2O8) 13813-64-4, and Gehlenite (Ca2Al2SiO7) 1302-56-3. Granulated blast-furnace slag is a co-product of the steel industry produced by adding a limestone flux to the ore to remove non-ferrous contaminants. As such, it may contain small quantities of hazardous heavy metals, including trace amounts of chromium, usually in solution in the glass. Ground granulated blast-furnace slag (GGBFS) is a vitreous material containing silica, alumina, magnesia and calcium oxides. It also contains a small quantity of iron, sodium, titanium and manganese oxides. The oxides do not actually occur in free form but as complexed silica-based glasses.

### QUARTZ

**ID:** 14808-60-7

Elegance Architectural Pavers & Wall Blocks  
hprepository.hpd-collaborative.org  
HPD v2.1.1 created via HPDC Builder Page 3 of 9
### Silica, Amorphous

**ID:** 7631-86-9

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharo Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE</th>
<th>2019-11-25</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: Impurity/Residual</td>
<td>GS: LT-P1</td>
<td>RC: None</td>
<td>NANO: No</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

- **CANCER**
  - **IARC**
    - Group 1 - Agent is Carcinogenic to humans
  - **US CDC - Occupational Carcinogens**
    - Occupational Carcinogen
  - **CA EPA - Prop 65**
    - Carcinogen - specific to chemical form or exposure route
  - **IARC**
    - Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
  - **US NIH - Report on Carcinogens**
    - Known to be Human Carcinogen (respirable size - occupational setting)
  - **MAK**
    - Carcinogen Group 1 - Substances that cause cancer in man
  - **GHS - New Zealand**
    - 6.7A - Known or presumed human carcinogens
  - **GHS - Japan**
    - Carcinogenicity - Category 1A [H350]
  - **GHS - Australia**
    - H350i - May cause cancer by inhalation

**SUBSTANCE NOTES:** Potential sources: Slag Cement (65996-69-2). As per Pharo CML: Pollutant/Contaminant; Frequent; % Unknown.

### Sulfur Trioxide

**ID:** 7446-11-9

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharo Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE</th>
<th>2019-11-25</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: Impurity/Residual</td>
<td>GS: LT-P1</td>
<td>RC: None</td>
<td>NANO: No</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

- **MAMMALIAN**
  - **US EPA - EPCRA Extremely Hazardous Substances**
    - Extremely Hazardous Substances

**SUBSTANCE NOTES:** Potential source: Portland cement. As per Pharo CML: Component; Integral; 3.0%.
**IRON OXIDE**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 1.00</td>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>WARNINGS</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

**CANCER**

**MAK**

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

**SUBSTANCE NOTES**: Percent by weight of substance reported as a range due to different colors available. Contact manufacturer if more information is required.

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**CALCIUM OXIDE**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: Impurity/Residual</td>
<td>GS: LT-P1</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

None found

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES**: Sources: Portland cement; slag cement. As per Pharos CML: Component; Frequent; % Unknown.

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**LIMESTONE, CALCIUM CARBONATE**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 10.00</td>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

None found

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES**: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). May also represent component of various other raw materials.

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**FERRIC OXIDE**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 1.00</td>
<td>GS: BM-2</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

**ROLE**: Pigment
### TITANIUM DIOXIDE

**ID:** 13463-67-7

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-11-25

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Pigmentary Titanium Dioxide is identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Percent by weight of substance reported as a range due to different colors available. Contact manufacturer if more information is required.

### CARBON BLACK

**ID:** 1333-86-4

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-11-25

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Percent by weight of substance reported as a range due to different colors available. Contact manufacturer if more information is required.
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES: Percent by weight of substance reported as a range due to different colors available. Contact manufacturer if more information is required.
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.

<table>
<thead>
<tr>
<th>VOC EMISSIONS</th>
<th>CDPH Standard Method – Not tested</th>
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</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY:</td>
<td>Self-declared</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>N/A</td>
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<td>CERTIFICATE URL:</td>
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<td>ISSUE DATE:</td>
<td>2019-08-14</td>
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<td>EXPIRY DATE:</td>
<td></td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

Elegance Architectural Pavers & Wall Blocks are manufactured at the following Unilock facilities: Ayr, Ontario; Georgetown, Ontario.
MANUFACTURER INFORMATION

MANUFACTURER: Unilock
ADDRESS: 401 The West Mall
Suite 610
Toronto ON M9C 5J5, CANADA
WEBSITE: www.unilock.com

CONTACT NAME: Brad Swanson
TITLE: Director of Commercial Sales
PHONE: 800-864-5625
EMAIL: Brad.Swanson@unilock.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/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.