SPARTACOTE™ FLEX XPL™ LG
by LATICRETE International

CLASSIFICATION: 09 67 00
PRODUCT DESCRIPTION: High solids, low VOC and minimal odor polyaspartic coating for both decorative and protective applications. SPARTACOTE FLEX XPL Low Gloss enhances any SPARTACOTE resinous flooring system by providing an attractive, less reflective finish when used as a top coat. Engineered to retain a low viscosity for longer periods of time, it allows for easier application and improved workability.

Section 1: Summary

CONTENT INVENTORY

<table>
<thead>
<tr>
<th>Inventory Reporting Format</th>
<th>Threshold Disclosed Per</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nested Materials Method</td>
<td>Material</td>
</tr>
<tr>
<td>Basic Method</td>
<td>Product</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Threshold level</th>
<th>Residuals/Impurities</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 ppm</td>
<td>Considered</td>
</tr>
<tr>
<td>1,000 ppm</td>
<td>Partially Considered</td>
</tr>
<tr>
<td>Per GHS SDS</td>
<td>Not Considered</td>
</tr>
<tr>
<td>Per OSHA MSDS</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

All Substances Above the Threshold Indicated Are:
- Characterized: Yes Ex/SC Yes No
- Screened: Yes Ex/SC Yes No
- Identified: Yes Ex/SC Yes No

Screened Substances:
- Number of Greenscreen BM-4/BM3 contents ... 0
- Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
- Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
This HPD was Created with Basic Inventory. Materials listed as Undisclosed in Section 2 is done to preserve integrity of formula and maintain competitive advantage. The component CAS# or SDS was used to identify and report associated hazards of these components.

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 |
--- | --- | --- | --- | --- |
SPARTACOTE™ FLEX XPL™ LG | [UNDISCLOSED LT-P1 TETRAETHYL N,N-(METHYLENEDIICYCLOHEXANE-4,1-DIYL)BIS-DL-ASPARTATE LT-UNK | SKI POLYPROPYLENE LT-UNK | UNDISCLOSED LT-UNK 2-BUTENEDIOIC ACID (E)-, DIETHYL ESTER LT-UNK 2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE LT-P1 END UNDISCLOSED NoGS A MIXTURE OF: 3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-ω-HYDROXYPOLY(OXYETHYLENE), 3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-ω-HYDROXYPOLY(OXYETHYLENE), 3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPOLY NoGS OLY(OXY-1,2-ETHANEDIYL), ALPHA-(3-(3-(2H-BENZOTRIAZOL-2-YL)-5-(1,1-DIMETHYLETHYL)-4-HYDROXYPHENYL)-1-OXOPROPYL)-OMEGA-HYDROXY- NoGS UNDISCLOSED NoGS PROPYLENE GLYCOL BM-2 | END DECANEDIOLIC ACID, BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) ESTER LT-P1 | PBT | MUL UNDISCLOSED LT-UNK | RES | SKI | EYE | TAM METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE LT-P1 | MUL OCTAMETHYLCYCLOTETRAISOXANE (D4) BM-1 | END | PBT | MUL | REP |

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

<table>
<thead>
<tr>
<th>Material (g/l): 30.1</th>
<th>Regulatory (g/l): 30.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Does the product contain exempt VOCs: No</td>
<td></td>
</tr>
<tr>
<td>Are ultra-low VOC tints available: N/A</td>
<td></td>
</tr>
</tbody>
</table>

CERTIFICATIONS AND COMPLIANCE
See Section 3 for additional listings.

VOC emissions: N/A
VOC content: TDS 251 “Low VOC LATICRETE® Products”

CONSISTENCY WITH OTHER PROGRAMS
Pre-checked for LEED v4 Material Ingredients, Option 1
<table>
<thead>
<tr>
<th>Third Party Verified?</th>
<th>PREPARER:</th>
<th>VERIFIER:</th>
<th>SCREENING DATE:</th>
<th>PUBLISHED DATE:</th>
<th>EXPIRY DATE:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td></td>
<td>2019-12-16</td>
<td>2020-02-17</td>
<td>2022-12-16</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PREPARED: Self-Prepared
VERIFICATION #: 
SCREENING DATE: 2019-12-16
PUBLISHED DATE: 2020-02-17
EXPIRY DATE: 2022-12-16

SPARTACOTE FLEX XPL LG
hpdrepository.hpd-collaborative.org
HPD v2.1.1 created via HPDC Builder Page 2 of 9
## 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)

### SPARTACOTE™ FLEX XPL™ LG

<table>
<thead>
<tr>
<th>PRODUCT THRESHOLD: 100 ppm</th>
<th>RESIDUALS AND IMPURITIES CONSIDERED: No</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are measured by quantitative methods and are only displayed when they are potentially greater than 100 ppm.</td>
<td></td>
</tr>
<tr>
<td>OTHER PRODUCT NOTES: See SDS at <a href="https://laticrete.com">https://laticrete.com</a> for occupational exposure information. Materials listed as Undisclosed in Section 2 is done to preserve integrity of formula and maintain competitive advantage. The component CAS# was used to identify associated hazards of these components.</td>
<td></td>
</tr>
</tbody>
</table>

#### UNDISCLOSED

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-12-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 20.00 - 30.00</td>
<td>GS: LT-P1</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
<tr>
<td>None found</td>
<td></td>
</tr>
<tr>
<td>SUBSTANCE NOTES: The amount of this component may vary based on plant of manufacture. This product is shown as undisclosed to preserve integrity of formula and maintain competitive advantage. The component CAS# was used to identify associated hazards.</td>
<td></td>
</tr>
</tbody>
</table>

#### TETRAETHYL N,N’-(METHYLENEDICYCLOHEXANE-4,1-DIYL)BIS-DL-ASPARTATE

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-12-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 19.00 - 39.00</td>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
<tr>
<td>SKIN SENSITIZE</td>
<td>EU - GHS (H-Statements)</td>
</tr>
<tr>
<td>SUBSTANCE NOTES: The amount of this component may vary based on plant of manufacture.</td>
<td></td>
</tr>
</tbody>
</table>

#### POLYPROPYLENE

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-12-16</th>
</tr>
</thead>
</table>
### MATTE AGENT

**%:** 10.00 - 30.00  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Matte Agent

**HAZARD TYPE**  
None found

**AGENCY AND LIST TITLES**  
No warnings found on HPD Priority Hazard Lists

**WARNINGS**  
None found

**SUBSTANCE NOTES:** The amount of this component may vary based on plant of manufacture.

### DRYING AGENT

**%:** 4.00 - 5.00  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Drying Agent

**HAZARD TYPE**  
None found

**AGENCY AND LIST TITLES**  
No warnings found on HPD Priority Hazard Lists

**WARNINGS**  
None found

**SUBSTANCE NOTES:** The amount of this component may vary based on plant of manufacture. This product is shown as undisclosed to preserve integrity of formula and maintain competitive advantage. The component CAS # was used to identify associated hazards.

### 2-BUTENEDIOIC ACID (E)-, DIETHYL ESTER

**ID:** 623-91-6

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-12-16

**%:** 1.00 - 4.00  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Curing Agent

**HAZARD TYPE**  
None found

**AGENCY AND LIST TITLES**  
No warnings found on HPD Priority Hazard Lists

**WARNINGS**  
None found

**SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture.

### 2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE

**ID:** 6846-50-0

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-12-16

**%:** 0.70 - 3.40  
**GS:** LT-P1  
**RC:** None  
**NANO:** No  
**ROLE:** Hardener

**HAZARD TYPE**  
ENDOCRINE

**AGENCY AND LIST TITLES**  
TEDX - Potential Endocrine Disruptors

**WARNINGS**  
Potential Endocrine Disruptor

**SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture.

### DISPERANT

**%:** 0.30 - 0.40  
**GS:** NoGS  
**RC:** None  
**NANO:** No  
**ROLE:** Dispersant

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-12-16

**HAZARD TYPE**  
None found

**AGENCY AND LIST TITLES**  
No warnings found on HPD Priority Hazard Lists

**WARNINGS**  
None found

**SUBSTANCE NOTES:** The amount of this component may vary based on plant of manufacture.
<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2019-12-16</td>
<td>0.20-0.30</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>UV Stabilizer</td>
</tr>
<tr>
<td>A MIXTURE OF: α-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-ω-HYDROXYPOLY(OXYETHYLENE), α-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-ω-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPOLY</td>
<td>104810-47-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UNDISCLOSED</td>
<td></td>
<td>0.20-0.25</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Wetting Agent</td>
</tr>
<tr>
<td>PROPYLENE GLYCOL</td>
<td></td>
<td>57-55-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### DECANEDIOIC ACID, BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) ESTER

**ID:** 41556-26-7

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-12-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.15 - 0.25</td>
<td>GS: LT-P1</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
<tr>
<td>PBT</td>
<td>WARNINGS</td>
</tr>
<tr>
<td>Persistent, Bioaccumulative and inherently Toxic (PBITE) to the Environment (based on aquatic organisms)</td>
<td></td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>Class 2 - Hazard to Waters</td>
</tr>
<tr>
<td>German FEA - Substances Hazardous to Waters</td>
<td></td>
</tr>
</tbody>
</table>

**WARNINGS:**
- PBT - EC - CEPA DSL
- MULTIPLE - German FEA - Substances Hazardous to Waters

**SUBSTANCE NOTES:** The amount of this component may vary based on plant of manufacture.

### UNDISCLOSED

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-12-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.05 - 0.07</td>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
<tr>
<td>RESPIRATORY</td>
<td>WARNINGS</td>
</tr>
<tr>
<td>Asthmagen (G) - generally accepted</td>
<td></td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
<td>H315 - Causes skin irritation</td>
</tr>
<tr>
<td>SKIN SENSITIZE</td>
<td>H317 - May cause an allergic skin reaction</td>
</tr>
<tr>
<td>EYE IRRITATION</td>
<td>H319 - Causes serious eye irritation</td>
</tr>
<tr>
<td>MAMMALIAN</td>
<td>H331 - Toxic if inhaled</td>
</tr>
<tr>
<td>RESPIRATORY</td>
<td>H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled</td>
</tr>
<tr>
<td>RESPIRATORY</td>
<td>MAK - Sensitizing Substance Sah - Danger of airway &amp; skin sensitization</td>
</tr>
</tbody>
</table>

**WARNINGS:**
- RESPIRATORY - MAK
- SKIN IRRITATION - EU - GHS (H-Statements)
- SKIN SENSITIZE - EU - GHS (H-Statements)
- EYE IRRITATION - EU - GHS (H-Statements)
- MAMMALIAN - EU - GHS (H-Statements)
- RESPIRATORY - EU - GHS (H-Statements)

**SUBSTANCE NOTES:** The amount of this component may vary based on plant of manufacture. This product is shown as undisclosed to preserve integrity of formula and maintain competitive advantage. The component CAS # was used to identify associated hazards.
### METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE

**ID:** 82919-37-7  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-12-16  
**%:** 0.02 - 0.04  
**GS:** LT-P1  
**RC:** None  
**NANO:** No  
**ROLE:** UV Stabilizer  

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The amount of this component may vary based on plant of manufacture.

### OCTAMETHYLCYCLOTETRASILOXANE (D4)

**ID:** 556-67-2  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-12-16  
**%:** 0.01 - 0.01  
**GS:** BM-1  
**RC:** None  
**NANO:** No  
**ROLE:** Defoamer  

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENDOCRINE</td>
<td>EU - Priority Endocrine Disruptors</td>
<td>Category 1 - In vivo evidence of Endocrine Disruption Activity</td>
</tr>
<tr>
<td>PBT</td>
<td>EU - ESIS PBT</td>
<td>Under PBT evaluation</td>
</tr>
<tr>
<td>PBT</td>
<td>EU - SVHC Authorisation List</td>
<td>PBT - Candidate list</td>
</tr>
<tr>
<td>PBT</td>
<td>EU - SVHC Authorisation List</td>
<td>vPvB - Candidate list</td>
</tr>
<tr>
<td>PBT</td>
<td>OR DEQ - Priority Persistent Pollutants</td>
<td>Priority Persistent Pollutant - Tier 1</td>
</tr>
<tr>
<td>PBT</td>
<td>EC - CEPA DSL</td>
<td>Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms)</td>
</tr>
<tr>
<td>PBT</td>
<td>EC - CEPA DSL</td>
<td>Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans</td>
</tr>
<tr>
<td>RESTRICTED LIST</td>
<td>US EPA - PPT Chemical Action Plans</td>
<td>TSCA Work Plan chemical - Action Plan in development</td>
</tr>
<tr>
<td>REPRODUCTIVE</td>
<td>EU - GHS (H-Statements)</td>
<td>H361f - Suspected of damaging fertility</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>ChemSec - SIN List</td>
<td>CMR - Carcinogen, Mutagen &amp;/or Reproductive Toxicant</td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>ChemSec - SIN List</td>
<td>Endocrine Disruption</td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 3 - Severe Hazard to Waters</td>
</tr>
<tr>
<td>RESTRICTED LIST</td>
<td>US EPA - PPT Chemical Action Plans</td>
<td>TSCA Work Plan chemical - ongoing chemical (risk) assessment</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The amount of this component may vary based on plant of manufacture.
### 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

**Certifying Party:** Self-declared  
**Applicable Facilities:** Applies to All Facilities.  
**Certificate URL:**  
**Issue Date:** 2019-12-16  
**Expiry Date:**  
**Certifier or Lab:** LATICRETE  

**Certification and Compliance Notes:** SPARTACOTE™ FLEX XPL™ LG has not been tested for VOC emissions.

#### VOC CONTENT

**Certifying Party:** Self-declared  
**Applicable Facilities:** Applies to All Facilities.  
**Certificate URL:** https://cdn.laticrete.com/~/media/support-and-downloads/technical-datasheets/tds251.ashx  
**Issue Date:** 2019-12-16  
**Expiry Date:**  
**Certifier or Lab:** LATICRETE  

**Certification and Compliance Notes:** SPARTACOTE™ FLEX XPL™ LG meets LEED v4 Credit "Low Emitting Materials" VOC Content Requirements per SCAQMD Rule 1113 (Industrial Maintenance (IM) Coatings).

### 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

SPARTACOTE® FLEX XPL™ LG meets Living Building Challenge requirements as stated in the LBC Small Component Clause, but it does contain a component which is found on the Red Listed Materials or Chemicals. Specifically, SPARTACOTE FLEX XPL LG contains a small amount (0.0035%) of Octamethylcyclotetrasiloxane (D4) as stated in Section 2 of this HPD. The amount of the stated material is below the maximum threshold as stated in the LBC Small Component Clause.
Section 6: References

MANUFACTURER INFORMATION

**MANUFACTURER:** LATICRETE International  
**ADDRESS:** 1 Laticrete Park North  
Bethany CT 06770, USA  
**WEBSITE:** https://laticrete.com

**CONTACT NAME:** Mitch Hawkins  
**TITLE:** Senior Manager, Technical Services  
**PHONE:** 203.393.4619  
**EMAIL:** wmhawkins@laticrete.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)

**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.