Crossville Porcelain Tile Panels and Crossville Porcelain Countertops

Health Product Declaration v2.1.1
created via: HPDC Online Builder

CLASSIFICATION: 09 30 13

PRODUCT DESCRIPTION: CROSSVILLE’S PORCELAIN TILE PANELS ARE THE ONLY DESIGN SOLUTION OF THEIR KIND THAT CAN SKIN BOTH FLOORS AND WALLS IN DURABLE, ENViable CERAmIC STYLE. THIS HPD COVERS 3, 3+, 5.6, 5+ AND CROSSVILLE PORCELAIN COUNTERTOPS.

---

### Section 1: Summary

**Basic Method / Product Threshold**

**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>
</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
- % weight and role provided for all substances.
- Screened: Yes Ex/SC Yes No
- All substances screened using Priority Hazard Lists with results disclosed.
- Identified: Yes Ex/SC Yes No
- All substances disclosed by Name (Specific or Generic) and Identifier.

---

### 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**

| CROSSVILLE PORCELAIN TILE PANELS AND CROSSVILLE PORCELAIN COUNTERTOPS | FUMED SILICA LT-P1 | CAN ALUMINUM OXIDE BM-2 | RES Phosphorus Oxide (P2O5) LT-P1 | SKI C.I. PIGMENT BLUE 36 LT-1 | RES | CAN | GEN BENTONITE LT-UNK | BISMUTH OXIDE (B2O3) LT-P1 | MUL 2-Ethylhexanoic Acid LT-P1 | DEL | END | REP TERT-DodecaneThiol, Gold(1++) Salt LT-UNK | Zirconium Oxide (ZrO2) LT-P1 | CAN SILICA, AMORPHOUS, FUMED, CRYST.-FREE LT-P1 | CAN Barium Oxide LT-1 | CAN | RES CAN | GEN AMORPHOUS SILICA LT-P1 | CAN SILICA, VITREOUS LT-1 | CAN CHROMIUM IRON OXIDE LT-P1 | CAN Zircon (Zr(SiO4)) LT-UNK | SILIUM Oxide (Nao) LT-UNK C.I. PIGMENT BLUE 28 LT-1 | CAN | RES CAN | GEN FRITS, CHEMICALS LT-P1 | MUL Reaction Mass of Fumes, Silica and Diiron Trioxide NoGS | Spodumene (All)(SiO3)2 LT-UNK | RES Feldspar LT-UNK | RES C.I. PIGMENT BROWN 24 LT-UNK HEMATITE, CHROMIUM GREEN BLACK LT-UNK FIBERGLASS LT-UNK | CAN POTASSIUM OXIDE LT-UNK NEPHELINE SYENITE LT-UNK CALCIUM CARBONATE LT-UNK CLAY LT-UNK | CAN QUARTZ LT-1 | CAN POLYMETHYLENE POLYPHENYL ISOXYANATE LT-UNK | RES | MUL | CAN PHOSPHORIC ACID, IRON(3++) SALT (1:1) LT-UNK POTASSIUM Oxide (K2O) LT-UNK WELLASTONE LT-UNK C.I. PIGMENT BROWN 33 LT-UNK TITANIUM DIOXIDE LT-1 | CAN | END DIron TIOXIDE BM-2 | CAN CRISTOBALITE (SiO2) LT-1 | CAN METAPHOSPHORIC ACID (HPo3), ALUMINUM SALT (3:1) LT-UNK ZINC, 2-Ethylhexanoate ISOoctanoate Complexes, Basic LT-UNK SILICIC ACID, SODIUM SALT LT-P1 | END IRON Oxide (Fe3O4) LT-UNK | 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:

Crossville Porcelain Tile Panels and Crossville Porcelain Countertops
hpdrepository.hpd-collaborative.org

HPD v2.1.1 created via HPDC Builder Page 1 of 29
VOLATILE ORGANIC COMPOUND (VOC) CONTENT
VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE
VOC emissions: CDPH Standard Method V1.1 (Section 01350/CHPS) - Classroom & Office scenario

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: 2019-06-27
PUBLISHED DATE: 2019-06-18
EXPIRY DATE: 2022-06-27

Crossville Porcelain Tile Panels and Crossville Porcelain Countertops
hpdrepository.hpd-collaborative.org
HPD v2.1.1 created via HPDC Builder Page 2 of 29
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

---

**CROSSVILLE PORCELAIN TILE PANELS AND CROSSVILLE PORCELAIN COUNTERTOPS**

**PRODUCT THRESHOLD:** 100 ppm

**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**RESIDUALS AND IMPURITIES NOTES:** All residual data was collected from suppliers and those that fall above the reported threshold are included in the product inventory.

**OTHER PRODUCT NOTES:**

---

**FUMED SILICA**

ID: 99439-28-8

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

**HAZARD SCREENING DATE:** 2019-06-27

| %: 40.00 - 50.00 | GS: LT-P1 | RC: None | NANO: No | ROLE: Body |

**HAZARD TYPE**

| CANCER |
| Japan - GHS |
| Cancerogenicity - Category 1A |

**WARNINGS**

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

---

**ALUMINUM OXIDE**

ID: 1344-28-1

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

**HAZARD SCREENING DATE:** 2019-06-27

| %: 5.00 - 30.00 | GS: BM-2 | RC: None | NANO: No | ROLE: Body |

**HAZARD TYPE**

| RESPIRATORY |
| AOEC - Asthmagens |
| Asthmagen (Rs) - sensitizer-induced |

**WARNINGS**

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials. The GreenScreen Assessment was published by WAP Sustainability on 4/20/2018 and can be found at http://www.wapsustainability.com/s/Final-GreenScreen-Assessment-Aluminum-oxide_GreenScreen_Chemicalv14.pdf.
### PHOSPHORUS OXIDE (P2O5)

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27  
**%:** 0.00 - 0.10  
**GS:** LT-P1  
**RC:** None  
**NANO:** No  
**ROLE:** Body  

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  

**SKIN IRRITATION**  
**EU - GHS (H-Statements)**  
H314 - Causes severe skin burns and eye damage  

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### C.I. PIGMENT BLUE 36

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27  
**%:** 0.00 - 0.10  
**GS:** LT-1  
**RC:** None  
**NANO:** No  
**ROLE:** Pigment  

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  

**RESPIRATORY**  
AOEC - Asthmagens  
Asthmagen (G) - generally accepted  

**CANCER**  
MAK  
Carcinogen Group 2 - Considered to be carcinogenic for man  

**RESPIRATORY**  
MAK  
Sensitizing Substance Sah - Danger of airway & skin sensitization  

**GENE MUTATION**  
MAK  
Germ Cell Mutagen 3a  

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### BENTONITE

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27  
**%:** 0.00 - 0.10  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Glaze  

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  

None found  
No warnings found on HPD Priority Hazard Lists  

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### BISMUTH OXIDE (Bi2O3)

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27  
**%:** 0.00 - 0.10  
**GS:** LT-P1  
**RC:** None  
**NANO:** No  
**ROLE:** Ink  

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  

Crossville Porcelain Tile Panels and Crossville Porcelain Countertops  
hprepository.hpd-collaborative.org
<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</td>
<td>Class 2 - Hazard to Waters</td>
</tr>
<tr>
<td></td>
<td>Waters</td>
<td></td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### 2-ETHYLHEXANOIC ACID

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>0.00 - 0.10</td>
<td>GS: LT-P1</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>DEVELOPMENTAL</td>
<td>EU - GHS (H-Statements)</td>
</tr>
<tr>
<td>AGENCY AND LIST TITLES</td>
<td></td>
<td>H361d - Suspected of damaging the unborn child</td>
</tr>
<tr>
<td>WARNINGS</td>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
</tr>
<tr>
<td></td>
<td>REPRODUCTIVE</td>
<td>Japan - GHS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toxic to reproduction - Category 1B</td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### TERT-DODECANETHIOL, GOLD(1++) SALT

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>0.00 - 0.10</td>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td>AGENCY AND LIST TITLES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WARNINGS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### ZIRCONIUM OXIDE (ZRO2)

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>0.00 - 0.10</td>
<td>GS: LT-P1</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>CANCER</td>
<td>MAK</td>
</tr>
<tr>
<td>AGENCY AND LIST TITLES</td>
<td></td>
<td>Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels</td>
</tr>
<tr>
<td>WARNINGS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.
| Substance Notes: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials. |

### Silica, Amorphous, Fumed, Cryst.-Free

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 0.10 GS: LT-P1</td>
<td>RC: None</td>
</tr>
<tr>
<td>HAZARD TYPE AGENCY AND LIST TITLES</td>
<td>NANO: No ROLE: Pigment</td>
</tr>
</tbody>
</table>

**WARNINGS**

- **CANCER**
  - Japan - GHS: Carcinogenicity - Category 1A
  - Australia - GHS: H350i - May cause cancer by inhalation

### Barium Oxide

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 0.10 GS: LT-1</td>
<td>RC: None</td>
</tr>
<tr>
<td>HAZARD TYPE AGENCY AND LIST TITLES</td>
<td>NANO: No ROLE: Body</td>
</tr>
</tbody>
</table>

**WARNINGS**

- **RESPIRATORY**
  - AOEC - Asthmagens: Asthmagens (G) - generally accepted

- **CANCER**
  - MAK: Carcinogen Group 2 - Considered to be carcinogenic for man

- **RESPIRATORY**
  - MAK: Sensitizing Substance Sah - Danger of airway & skin sensitization

- **GENE MUTATION**
  - MAK: Germ Cell Mutagen 3a

### Amorphous Silica

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 25.00 GS: LT-P1</td>
<td>RC: None</td>
</tr>
<tr>
<td>HAZARD TYPE AGENCY AND LIST TITLES</td>
<td>NANO: No ROLE: Body</td>
</tr>
</tbody>
</table>

**WARNINGS**

- **CANCER**
  - Japan - GHS: Carcinogenicity - Category 1A
  - Australia - GHS: H350i - May cause cancer by inhalation
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica, Vitreous</td>
<td>60676-86-0</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
</tr>
</tbody>
</table>

- **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library
- **HAZARD SCREENING DATE:** 2019-06-27
- **%:** 0.00 - 20.00
- **GS:** LT-1
- **RC:** None
- **NANO:** No
- **ROLE:** Body

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

**CANCER**

US CDC - Occupational Carcinogens

**Occupational Carcinogen**

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium Iron Oxide</td>
<td>12737-27-8</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
</tr>
</tbody>
</table>

- **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library
- **HAZARD SCREENING DATE:** 2019-06-27
- **%:** 0.00 - 15.00
- **GS:** LT-P1
- **RC:** None
- **NANO:** No
- **ROLE:** Body

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

**SKIN SENSITIZE**

MAK

Sensitizing Substance Sh - Danger of skin sensitization

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zircon (Zr(SiO4))</td>
<td>14940-68-2</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
</tr>
</tbody>
</table>

- **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library
- **HAZARD SCREENING DATE:** 2019-06-27
- **%:** 0.00 - 10.00
- **GS:** LT-UNK
- **RC:** None
- **NANO:** No
- **ROLE:** Body

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

None found

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Oxide (NaO)</td>
<td>12401-86-4</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
</tr>
</tbody>
</table>

- **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library
- **HAZARD SCREENING DATE:** 2019-06-27
- **%:** 0.00 - 10.00
- **GS:** LT-UNK
- **RC:** None
- **NANO:** No
- **ROLE:** Body

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

None found

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.
### C.I. PIGMENT BLUE 28

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27  
**%:** 0.00 - 5.00  
**GS:** LT-1  
**ROLE:** Body

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESPIRATORY</td>
<td>AOEC - Asthmagens</td>
<td>Asthmagen (G) - generally accepted</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 2 - Considered to be carcinogenic for man</td>
</tr>
<tr>
<td>RESPIRATORY</td>
<td>MAK</td>
<td>Sensitizing Substance Sah - Danger of airway &amp; skin sensitization</td>
</tr>
<tr>
<td>GENE MUTATION</td>
<td>MAK</td>
<td>Germ Cell Mutagen 3a</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### FRITS, CHEMICALS

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27  
**%:** 0.00 - 5.00  
**GS:** LT-P1  
**ROLE:** Body

<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:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### REACTION MASS OF FUMES, SILICA AND DIIRON TRIOXIDE

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27  
**%:** 0.00 - 5.00  
**GS:** NoGS  
**ROLE:** Body

**WARNINGS:** None found

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### SPODUMENE (ALLI(SIO3)2)

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27  
**%:** 0.00 - 5.00  
**GS:** LT-UNK  
**ROLE:** Body
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feldspar</td>
<td>68476-25-5</td>
<td>%: 0.00 - 5.00 GS: LT-UNK RC: None NANO: No ROLE: Body</td>
<td></td>
</tr>
<tr>
<td>Substance Notes:</td>
<td></td>
<td>A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.</td>
<td></td>
</tr>
<tr>
<td>C.I. Pigment Brown 24</td>
<td>68186-90-3</td>
<td>%: 0.00 - 5.00 GS: LT-UNK RC: None NANO: No ROLE: Body</td>
<td></td>
</tr>
<tr>
<td>Substance Notes:</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
<tr>
<td>Hematite, Chromium Green Black</td>
<td>68909-79-5</td>
<td>%: 0.00 - 5.00 GS: LT-UNK RC: None NANO: No ROLE: Body</td>
<td></td>
</tr>
<tr>
<td>Substance Notes:</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
<tr>
<td>Fiberglass</td>
<td>65997-17-3</td>
<td>%: 0.00 - 5.00 GS: LT-UNK RC: None NANO: No ROLE: Body</td>
<td></td>
</tr>
<tr>
<td>Substance Notes:</td>
<td></td>
<td>A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.</td>
<td></td>
</tr>
<tr>
<td>Substance</td>
<td>ID</td>
<td>HAZARD SCREENING METHOD</td>
<td>HAZARD SCREENING DATE</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------</td>
<td>-------------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>POTASSIUM OXIDE</td>
<td>37382-43-7</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
</tr>
<tr>
<td>NEPHELINE SYENITE</td>
<td>37244-96-5</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
</tr>
<tr>
<td>CALCIUM CARBONATE</td>
<td>1317-65-3</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
</tr>
<tr>
<td>CLAY</td>
<td>1332-58-7</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.
### Quartz

**ID:** 14808-60-7

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27

<table>
<thead>
<tr>
<th>Percentage</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 5.00</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Body</td>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 1B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### Polymethylenepolyphenyl isocyanate

**ID:** 9016-87-9

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27

<table>
<thead>
<tr>
<th>Percentage</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 1.00</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Fiberglass</td>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 1 - Substances that cause cancer in man</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CANCER</td>
<td>New Zealand - GHS</td>
<td>6.7A - Known or presumed human carcinogens</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CANCER</td>
<td>Japan - GHS</td>
<td>Carcinogenicity - Category 1A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CANCER</td>
<td>Australia - GHS</td>
<td>H350i - May cause cancer by inhalation</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials. Since this substance is not in its respirable form, if manufacturer’s instructions are followed during installation, the risk level of the hazards listed above is significantly diminished.
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESPIRATORY</td>
<td>AOEC - Asthmagens</td>
<td>Asthmagen (G) - generally accepted</td>
</tr>
<tr>
<td>RESPIRATORY</td>
<td>US EPA - PPT Chemical Action Plans</td>
<td>Inhalation sensitizer causing asthma and lung damage</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>
<tr>
<td>RESPIRATORY</td>
<td>MAK</td>
<td>Sensitizing Substance Sah - Danger of airway &amp; skin sensitization</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

---

**PHOSPHORIC ACID, IRON(3++) SALT (1:1)**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 1.00</td>
<td>GS: LT-UNK</td>
</tr>
</tbody>
</table>

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

**HAZARD SCREENING DATE:** 2019-06-27

**%:** 0.00 - 1.00

<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>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

---

**POTASSIUM OXIDE (K2O)**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 1.00</td>
<td>GS: LT-UNK</td>
</tr>
</tbody>
</table>

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

**HAZARD SCREENING DATE:** 2019-06-27

**%:** 0.00 - 1.00

<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>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

---

**WOLLASTONITE**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 1.00</td>
<td>GS: LT-UNK</td>
</tr>
</tbody>
</table>

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

**HAZARD SCREENING DATE:** 2019-06-27

**%:** 0.00 - 1.00

<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>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.
### C.I. PIGMENT BROWN 33

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27

<table>
<thead>
<tr>
<th>%</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Ink</th>
</tr>
</thead>
</table>

**HAZARD TYPE**

None found

**WARNINGS**

No warnings found on HPD Priority Hazard Lists

### TITANIUM DIOXIDE

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27

<table>
<thead>
<tr>
<th>%</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Body</th>
</tr>
</thead>
</table>

**HAZARD TYPE**

<table>
<thead>
<tr>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CANCER</strong></td>
<td>US CDC - Occupational Carcinogens</td>
</tr>
<tr>
<td><strong>CANCER</strong></td>
<td>CA EPA - Prop 65</td>
</tr>
<tr>
<td><strong>CANCER</strong></td>
<td>IARC</td>
</tr>
<tr>
<td><strong>ENDOCRINE</strong></td>
<td>TEDX - Potential Endocrine Disruptors</td>
</tr>
<tr>
<td><strong>CANCER</strong></td>
<td>MAK</td>
</tr>
<tr>
<td><strong>CANCER</strong></td>
<td>MAK</td>
</tr>
</tbody>
</table>

### DIIRON TRIOXIDE

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27

<table>
<thead>
<tr>
<th>%</th>
<th>GS: BM-2</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Body</th>
</tr>
</thead>
</table>

**HAZARD TYPE**

<table>
<thead>
<tr>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CANCER</strong></td>
<td>MAK</td>
</tr>
</tbody>
</table>
### CRISTOBALITE (SiO2)  
**ID:** 14464-46-1

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27

<table>
<thead>
<tr>
<th>%: 0.00 - 1.00</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Body</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**

- **CANCER**  
  - **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  
  - **New Zealand - GHS:** 6.7A - Known or presumed human carcinogens  
  - **Japan - GHS:** Carcinogenicity - Category 1A  
  - **Australia - GHS:** H350i - May cause cancer by inhalation

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials. Since this substance is not in its respirable form, if manufacturer’s instructions are followed during installation, the risk level of the hazards listed above is significantly diminished.

### METAPHOSPHORIC ACID (HPO3), ALUMINUM SALT (3:1)  
**ID:** 13776-88-0

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27

<table>
<thead>
<tr>
<th>%: 0.00 - 1.00</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Glaze</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**

- None found  
  - **No warnings found on HPD Priority Hazard Lists**

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### ZINC, 2-ETHYLHEXANOATE ISOOCTANOATE COMPLEXES, BASIC  
**ID:** 85204-04-2

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27

<table>
<thead>
<tr>
<th>%: 0.00 - 1.00</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Ink</th>
</tr>
</thead>
</table>
### Silicic Acid, Sodium Salt

**ID:** 1344-09-8

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 1.00</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Body</td>
</tr>
</tbody>
</table>

**WARNINGS**

- TEDX - Potential Endocrine Disruptors
- Potential Endocrine Disruptor

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### Iron Oxide (Fe3O4)

**ID:** 1317-61-9

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 1.00</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Glaze</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

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

**WARNINGS**

- CANCER: MAK
  - MAK: Carcinogen Group 2 - Considered to be carcinogenic for man

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### C.I. Pigment Black 27

**ID:** 68186-97-0

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 1.00</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Ink</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

- RESPIRATORY: AOEC - Asthmagens
  - AOEC - Asthmagens: Asthmagen (G) - generally accepted

- CANCER: MAK
  - MAK: Carcinogen Group 2 - Considered to be carcinogenic for man

- RESPIRATORY: MAK
  - MAK: Sensitizing Substance Sah - Danger of airway & skin sensitization

- GENE MUTATION: MAK
  - MAK: Germ Cell Mutagen 3a
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<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>C.I. PIGMENT BLUE 73</td>
<td>68187-40-6</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
<td>0.00 - 1.00</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Ink</td>
</tr>
<tr>
<td>CARBONIC ACID, STRONTIUM SALT (1:1)</td>
<td>1633-05-2</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
<td>0.00 - 1.00</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Glaze</td>
</tr>
<tr>
<td>CALCIUM OXIDE</td>
<td>60873-85-0</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
<td>0.00 - 1.00</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Body</td>
</tr>
<tr>
<td>MULLITE (AL6O5(SIO4)2)</td>
<td>1302-93-8</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
<td>0.00 - 1.00</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Body</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.
C.I. PIGMENT YELLOW 159

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-06-27

%: 0.00 - 1.00
GS: LT-UNK
RC: None
NANO: No
ROLE: Ink

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS

None found
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

CALCIUM MAGNESIUM CARBONATE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-06-27

%: 0.00 - 1.00
GS: NoGS
RC: None
NANO: No
ROLE: Glaze

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS

None found
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

ALUMINUM HYDROXIDE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-06-27

%: 0.00 - 1.00
GS: BM-2
RC: None
NANO: No
ROLE: Glaze

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS

RESPIRATORY
AOEC - Asthmagens
Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials. The GreenScreen assessment was performed by Rosenblum Environmental in 2014 and updated in 2016: https://www.pharosproject.net/uploads/files/gs/ed78c39f356996b073aca37fb1587538e19d58b9.pdf

NEODECANOIC ACID, RUTHENIUM SALT

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-06-27

%: 0.00 - 1.00
GS: NoGS
RC: None
NANO: No
ROLE: Ink

Crossville Porcelain Tile Panels and Crossville Porcelain Countertops hpdrepository.hpd-collaborative.org
HPD v2.1.1 created via HPDC Builder Page 17 of 29
### Zinc Oxide

**ID:** 1314-13-2

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27

**%:** 0.00 - 1.00  
**GS:** BM-1

**WARNINGS**

- **RESPIRATORY:** AOEC - Asthmagens  
  Asthmagen (Rs) - sensitizer-induced

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials. The expired GreenScreen assessment was performed by ToxServices LLC in 2014: [https://www.pharosproject.net/uploads/files/gs/c93f13c5702ed499d3f738803ddf5e75c34d57ff3.pdf](https://www.pharosproject.net/uploads/files/gs/c93f13c5702ed499d3f738803ddf5e75c34d57ff3.pdf)

### Magnesium Oxide (MGO)

**ID:** 1309-48-4

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27

**%:** 0.00 - 1.00  
**GS:** LT-UNK

**WARNINGS**

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

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### Phosphoric Acid, Calcium Salt (1:1)

**ID:** 7757-93-9

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27

**%:** 0.00 - 1.00  
**GS:** LT-UNK

**WARNINGS**

- None found

**SUBSTANCE NOTES:** No warnings found on HPD Priority Hazard Lists
SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

C.I. PIGMENT BLUE 71

<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></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>ROLE: Pigment</td>
</tr>
</tbody>
</table>

None found

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

C.I. PIGMENT GREEN 26

<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-1</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>ROLE: Pigment</td>
</tr>
</tbody>
</table>

RESPIRATORY

AOEC - Asthmagens

Asthmagen (G) - generally accepted

CHRON AQUATIC

EU - GHS (H-Statements)

H411 - Toxic to aquatic life with long lasting effects

CANCER

MAK

Carcinogen Group 2 - Considered to be carcinogenic for man

RESPIRATORY

MAK

Sensitizing Substance Sah - Danger of airway & skin sensitization

GENE MUTATION

MAK

Germ Cell Mutagen 3a

REPRODUCTIVE

Australia - GHS

H360F - May damage fertility

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

C.I. PIGMENT RED 233

<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></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>ROLE: Pigment</td>
</tr>
</tbody>
</table>

None found

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.
SODIUM OXIDE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-06-27

%: 0.00 - 1.00
GS: LT-UNK
RC: None
NANO: No
ROLE: Body

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

SILICIC ACID, ZIRCONIUM SALT, CADMIUM PIGMENT-ENCAPSULATED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-06-27

%: 0.00 - 1.00
GS: LT-1
RC: None
NANO: No
ROLE: Pigment

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER
IARC
Group 1 - Agent is Carcinogenic to humans

CANCER
CA EPA - Prop 65
Carcinogen

CANCER
US CDC - Occupational Carcinogens
Occupational Carcinogen

CANCER
US NIH - Report on Carcinogens
Known to be a human Carcinogen

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

CANCER
Korea - GHS
Carcinogenicity - Category 1 [H350 - May cause cancer]

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials. Since this substance is not in its respirable form, if manufacturer's instructions are followed during installation, the risk level of the hazards listed above is significantly diminished.

NEODECANOIC ACID, CHROMIUM(3+) SALT (3:1)

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-06-27

%: 0.00 - 1.00
GS: LT-UNK
RC: None
NANO: No
ROLE: Ink

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

SKIN SENSITIZE
MAK
Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

CALCIUM OXIDE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-06-27

%: 0.00 - 1.00
GS: LT-UNK
RC: None
NANO: No
ROLE: Ink

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

SKIN SENSITIZE
MAK
Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.
### HAZARD SCREENING METHOD:
Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2019-06-27

<table>
<thead>
<tr>
<th>%:</th>
<th>0.00 - 1.00</th>
<th>GS:</th>
<th>LT-P1</th>
<th>RC:</th>
<th>None</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE:</th>
<th>Body</th>
</tr>
</thead>
</table>

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

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### NATURALLY OCCURRING SUBSTANCES (CLAY)

<table>
<thead>
<tr>
<th>%:</th>
<th>0.00 - 1.00</th>
<th>GS:</th>
<th>NoGS</th>
<th>RC:</th>
<th>None</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE:</th>
<th>Glaze</th>
</tr>
</thead>
</table>

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

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### SILANE, TRIMETHOXY[3-(OXIRANYLMETHOXY)PROPYL]-

<table>
<thead>
<tr>
<th>%:</th>
<th>0.00 - 1.00</th>
<th>GS:</th>
<th>LT-P1</th>
<th>RC:</th>
<th>None</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE:</th>
<th>Fiberglass</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
AGENCY AND LIST TITLES:  
WARNINGS:  
MULTIPLE  
German FEA - Substances Hazardous to Waters  
Class 2 - Hazard to Waters

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### PHOSPHORIC ACID, MONOSODIUM SALT

<table>
<thead>
<tr>
<th>%:</th>
<th>0.00 - 1.00</th>
<th>GS:</th>
<th>LT-UNK</th>
<th>RC:</th>
<th>None</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE:</th>
<th>Body</th>
</tr>
</thead>
</table>

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

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.
### SPINELS, CHROMIUM IRON MANGANESE BROWN

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 1.00</td>
<td>RC: None</td>
</tr>
<tr>
<td>GS: LT-UNK</td>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Pigment</td>
<td></td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
</tbody>
</table>

None found

### HEXANOIC ACID, 2-ETHYL-, COBALT(2++) SALT

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 1.00</td>
<td>RC: None</td>
</tr>
<tr>
<td>GS: LT-1</td>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Ink</td>
<td></td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
</tbody>
</table>

RESPIRATORY
- AOEC - Asthmagens
  - Asthmagen (G) - generally accepted

CANCER
- US NIH - Report on Carcinogens
  - Reasonably Anticipated to be Human Carcinogen

MULTIPLE
- German FEA - Substances Hazardous to Waters
  - Class 2 - Hazard to Waters

CANCER
- MAK
  - Carcinogen Group 2 - Considered to be carcinogenic for man

REPRODUCTIVE
- Australia - GHS
  - H360Fd - May damage fertility. Suspected of damaging the unborn child

### CHROMIUM OXIDE (CR2O3)

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 1.00</td>
<td>RC: None</td>
</tr>
<tr>
<td>GS: LT-P1</td>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Body</td>
<td></td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
</tbody>
</table>

SKIN SENSITIZE
- MAK
  - Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%:</th>
<th>GS:</th>
<th>RC:</th>
<th>NANO:</th>
<th>ROLE:</th>
<th>WARNINGS</th>
<th>SUBSTANCE NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.I. PIGMENT RED 232</td>
<td>68412-79-3</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
<td>0.00 - 0.10</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
<td>None found</td>
<td>A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.</td>
</tr>
<tr>
<td>C.I. PIGMENT BLACK 23</td>
<td>68187-54-2</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
<td>0.00 - 0.10</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
<td>None found</td>
<td>A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.</td>
</tr>
<tr>
<td>IRON OXIDE</td>
<td>76774-74-8</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
<td>0.00 - 0.10</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Body</td>
<td>None found</td>
<td>A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.</td>
</tr>
<tr>
<td>C.I. PIGMENT BLACK 30</td>
<td>71631-15-7</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
<td>0.00 - 0.10</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td>None found</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------</td>
<td>----------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RESPIRATORY</td>
<td>AOEC - Asthmagens</td>
<td>Asthagen (Rs) - sensitizer-induced</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 1 - Agent is Carcinogenic to humans</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>US NIH - Report on Carcinogens</td>
<td>Known to be a human Carcinogen</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials. Since this substance is not in its respirable form, if manufacturer’s instructions are followed during installation, the risk level of the hazards listed above is significantly diminished.

**TRIPHOSPHORIC ACID, PENTASODIUM SALT**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 0.10</td>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>ROLE: Body</td>
</tr>
</tbody>
</table>

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

**MAGNESIUM OXIDE**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 0.10</td>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>ROLE: Body</td>
</tr>
</tbody>
</table>

CANCER

MAK

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

SUBSTANCE NOTES: A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

**LITHIUM OXIDE**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.00 - 0.10</td>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>ROLE: Body</td>
</tr>
</tbody>
</table>

None found

No warnings found on HPD Priority Hazard Lists
## Substance Notes
A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

### Boehmite (Al(OH)O)

**ID:** 1318-23-6  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27  
**%:** 0.00 - 0.10  
**GS:** NoGS  
**RC:** None  
**NANO:** No  
**ROLE:** Ink

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

None found  
No warnings found on HPD Priority Hazard Lists

### Fumes, Silica

**ID:** 69012-64-2  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27  
**%:** 0.00 - 0.10  
**GS:** LT-P1  
**RC:** None  
**NANO:** No  
**ROLE:** Ink

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

CANCER  
Australia - GHS  
H350i - May cause cancer by inhalation

### Silane, Tetrachloro-

**ID:** 10026-04-7  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27  
**%:** 0.00 - 0.10  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Fiberglass

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

SKIN IRRITATION  
EU - GHS (H-Statements)  
H315 - Causes skin irritation  
EYE IRRITATION  
EU - GHS (H-Statements)  
H319 - Causes serious eye irritation

### Graphite

**ID:** 7440-44-0  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-27  
**%:** 0.00 - 0.10  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Body
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<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>SULFUR TRIOXIDE</td>
<td>7446-11-9</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
<td></td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Body</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>98084-96-9</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
<td></td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Body</td>
</tr>
<tr>
<td>PHOSPHORIC ACID</td>
<td>7664-38-2</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-27</td>
<td></td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Ink</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.

**MAMMALIAN**

- US EPA - EPCRA Extremely Hazardous Substances
- Extremely Hazardous Substances

**CANCER**

- US CDC - Occupational Carcinogens
- Occupational Carcinogen
- CA EPA - Prop 65
- Carcinogen - specific to chemical form or exposure route
- IARC
- Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
- TEDX - Potential Endocrine Disruptors
- Potential Endocrine Disruptor
- MAK
- Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
- MAK
- Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

**ENDOCRINE**

- TEDX - Potential Endocrine Disruptors
- Potential Endocrine Disruptor

Since this substance is not in its respirable form, if manufacturer’s instructions are followed during installation, the risk level of the hazards listed above is significantly diminished.
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKIN IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H314 - Causes severe skin burns and eye damage</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** A range is given due to the variable product thickness, various color options, and due to the variable composition of naturally occurring materials.
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>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
</tr>
<tr>
<td>CERTIFYING METHOD:</td>
<td>CDPH Standard Method V1.1 (Section 01350/CHPS) - Classroom &amp; Office scenario</td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2015-09-03</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td></td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>UL Environment</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td><a href="https://www.crossvilleinc.com/getmedia/20bb1c84-fb14-4532-8080-60fd0cfca953/Laminam-VOC-testing-on-3.pdf">https://www.crossvilleinc.com/getmedia/20bb1c84-fb14-4532-8080-60fd0cfca953/Laminam-VOC-testing-on-3.pdf</a></td>
</tr>
</tbody>
</table>

**CERTIFICATION AND COMPLIANCE NOTES:** All tested emissions were BQL, including TVOC and formaldehyde. The test was performed on the 3+ variety which has the highest amount of fiberglass relative to the ceramic tile and is considered the most conservative estimate.

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.

### VARIOUS INSTALLATION PRODUCTS

<table>
<thead>
<tr>
<th>HPD URL:</th>
<th>No HPD Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:</td>
<td>Crossville recommended products for surface preparation, adhesive systems, grout systems, caulks, sealants, and crack isolation membranes from Ardex, Blanke, BOSTIK, CustomTech, LATICRETE, Mapei, and TEC and can be found on page 15 of the technical guide found at <a href="https://crossvilleinc.com/wordpress/wpcontent/uploads/2017/11/Laminam_English_webV3.pdf">https://crossvilleinc.com/wordpress/wpcontent/uploads/2017/11/Laminam_English_webV3.pdf</a> Several of these products have HPDs available and can be found at <a href="https://hpdrepository.hpd-collaborative.org/">https://hpdrepository.hpd-collaborative.org/</a></td>
</tr>
</tbody>
</table>

Section 5: General Notes

This HPD covers all Crossville Porcelain Tile Panels and Crossville Porcelain Countertops, including those with and without a fiberglass scrim. The formulation of all products is the same, with the variability coming from the thickness of the product, as well as the inclusion of the fiberglass scrim. Additionally, all color options are included, causing some formulation variability noted above.
MANUFACTURER INFORMATION

MANUFACTURER: Crossville Inc.
ADDRESS: 349 Sweeney Drive
Crossville TN 38555, USA
WEBSITE: https://crossvilleinc.com

CONTACT NAME: Noah Chitty
TITLE: Director of Technical Services
PHONE: 865-244-0807
EMAIL: nchitty@crossvilleinc.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

- 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.