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
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

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

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/or one or more Special Condition did not follow 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 | BM-4/BM3
--- | --- | --- | --- | --- | ---
| | | LT-1 | CAN | END | LT-1
LATICRETE 252Silver (WHITE) | QUARTZ | LT-P1 | END | CAN
| | | LT-UNK | LT-UNK | LT-UNK | LT-UNK
| | | LT-UNK | LT-UNK | LT-UNK | LT-UNK

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

INVENTORY AND SCREENING NOTES:
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# was used to identify associated hazards of these components.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 0.00
Regulatory (g/l): N/A

Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: N/A

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

VOC emissions: UL GreenGuard Gold (252 Silver)
VOC content: TDS 251 “Low VOC LATICRETE® Products”
LCA: LATICRETE Cement Mortar for Tile Installation Product Specific (Type III) Environmental Product Declaration

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
SCREENING DATE: 2020-10-01
PUBLISHED DATE: 2020-10-01
EXPIRY DATE: 2023-10-01

LATICRETE 252 Silver (White)
hpdrepository.hpd-collaborative.org

HPD v2.2 created via HPDC Builder Page 1 of 6
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 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

### LATICRETE 252 SILVER (WHITE)

**PRODUCT THRESHOLD:** 100 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**RESIDUALS AND IMPURITIES NOTES:** Residuals and impurities are measured by quantitative methods and are only displayed when they are potentially greater than 100 ppm.

**OTHER PRODUCT NOTES:** See SDS at https://laticrete.com for occupational exposure information.

#### QUARTZ

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-01

<table>
<thead>
<tr>
<th>%</th>
<th>55.0000 - 65.0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS</td>
<td>LT-1</td>
</tr>
<tr>
<td>RC</td>
<td>None</td>
</tr>
<tr>
<td>NANO</td>
<td>No</td>
</tr>
<tr>
<td>SUBSTANCE ROLE</td>
<td>Filler</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:** The amount of this component may vary based on plant of manufacture.

### PORTLAND CEMENT

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-01

<table>
<thead>
<tr>
<th>%</th>
<th>20.0000 - 30.0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS</td>
<td>LT-P1</td>
</tr>
<tr>
<td>RC</td>
<td>None</td>
</tr>
<tr>
<td>NANO</td>
<td>No</td>
</tr>
<tr>
<td>SUBSTANCE ROLE</td>
<td>Binder</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

- **ENDOCRINE**  
  - **TEDX - Potential Endocrine Disruptors**  
    - Potential Endocrine Disruptor
  - **MAK**  
    - Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

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

### UNDISCLOSED

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-01

<table>
<thead>
<tr>
<th>%</th>
<th>6.0000 - 10.0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS</td>
<td>NoGS</td>
</tr>
<tr>
<td>RC</td>
<td>None</td>
</tr>
<tr>
<td>NANO</td>
<td>No</td>
</tr>
<tr>
<td>SUBSTANCE ROLE</td>
<td>Filler</td>
</tr>
</tbody>
</table>
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.

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-10-01

SUBSTANCE ROLE: Polymer species

None found

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-10-01

SUBSTANCE ROLE: Processing regulator

None found

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-10-01

SUBSTANCE ROLE: Processing regulator

None found

TITANIUM DIOXIDE
ID: 13463-67-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-10-01

SUBSTANCE ROLE: Pigment

CANCER
US CDC - Occupational Carcinogens
Occupational Carcinogen

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

CANCER
IARC
Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

ENDOCRINE
TEDX - Potential Endocrine Disruptors
Potential Endocrine Disruptor

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

CANCER
MAK
Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
<table>
<thead>
<tr>
<th>Substance Notes: The amount of this component may vary based on plant of manufacture.</th>
</tr>
</thead>
</table>

### Calcium Carbonate

<table>
<thead>
<tr>
<th>%: 0.0050 - 0.0100</th>
<th>GS: LT-UNK</th>
<th>RG: None</th>
<th>NANO: No</th>
<th>Substance Role: Pigment</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND UST TITLES</td>
<td>WARNINGS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance Notes: The amount of this component may vary based on plant of manufacture.</th>
</tr>
</thead>
</table>

### Limestone; Calcium Carbonate

<table>
<thead>
<tr>
<th>%: Impurity/Residual</th>
<th>GS: BM-3</th>
<th>RG: None</th>
<th>NANO: No</th>
<th>Substance Role: Impurity/Residual</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND UST TITLES</td>
<td>WARNINGS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Substance Notes:** This substance is an impurity or residual. This impurity/residual may or may not be present based on the source of the raw material and/or be less than 100ppm.
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>UL GreenGuard Gold (252 Silver)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certifying Party</td>
<td>Third Party</td>
</tr>
<tr>
<td>Applicable Facilities</td>
<td>Applies to All Facilities</td>
</tr>
<tr>
<td>Issue Date</td>
<td>2009-07</td>
</tr>
<tr>
<td>Expiry Date</td>
<td>2021-07</td>
</tr>
<tr>
<td>Certifier or Lab</td>
<td>UL Environment</td>
</tr>
<tr>
<td>Certificate and Compliance Notes</td>
<td>Meets LEED v4.1 Credit &quot;Low Emitting Materials&quot; Emissions Requirements. This product was tested in accordance with California Department of Public Health (CDPH) v1.2 in an office and classroom environment.</td>
</tr>
</tbody>
</table>

### VOC CONTENT

<table>
<thead>
<tr>
<th>Certifying Party</th>
<th>TDS 251 &quot;Low VOC LATICRETE® Products&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certifying Party</td>
<td>Self-declared</td>
</tr>
<tr>
<td>Applicable Facilities</td>
<td>Applies to All Facilities</td>
</tr>
<tr>
<td>Issue Date</td>
<td>2020-08</td>
</tr>
<tr>
<td>Expiry Date</td>
<td></td>
</tr>
<tr>
<td>Certifier or Lab</td>
<td>LATICRETE</td>
</tr>
<tr>
<td>Certificate and Compliance Notes</td>
<td>Meets LEED v4.1 Credit &quot;Low Emitting Materials&quot; VOC Content Requirements per SCAQMD Rule 1168 (Tile Adhesive).</td>
</tr>
</tbody>
</table>

### LCA

<table>
<thead>
<tr>
<th>Certifying Party</th>
<th>LATICRETE Cement Mortar for Tile Installation Product Specific (Type III) Environmental Product Declaration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certifying Party</td>
<td>Third Party</td>
</tr>
<tr>
<td>Applicable Facilities</td>
<td>Applies to All Facilities in North America</td>
</tr>
<tr>
<td>Issue Date</td>
<td>2016-11</td>
</tr>
<tr>
<td>Expiry Date</td>
<td>2021-11</td>
</tr>
<tr>
<td>Certifier or Lab</td>
<td>UL Environment</td>
</tr>
<tr>
<td>Certificate and Compliance Notes</td>
<td>Meets LEED v4.1 Credit &quot;Building Product Disclosure and Optimization-Environmental Product Declarations&quot; requirements as a Product Specific (Type III) EPD.</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.

<table>
<thead>
<tr>
<th>Water</th>
<th>HPD URL: No HPD Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condition When Recommended or Required and/or Other Notes:</td>
<td>LATICRETE 252 Silver (White) to be mixed with water only following mix ratio and directions as stated on product data sheet.</td>
</tr>
</tbody>
</table>

Section 5: General Notes

LATICRETE® 252 Silver (White) meets the Living Building Challenge v4.0 requirement that the product does not contain any of the Red Listed Materials or Chemicals. Specifically, LATICRETE 252 Silver (White) does not contain the following: Antimicrobials (marketed with a health claim) • Alkylphenols and related compounds • Asbestos • Bisphenol A (BPA) and structural analogues • California Banned Solvents • Chlorinated Polymers, including Chlorinated polyethylene (CPE), Chlorinated Polyvinyl Chloride (CPVC), Chloroprene (neoprene monomer), Chlorosulfonated polyethylene (CSPE), Polyvinylidene chloride (PVDC), and Polyvinyl Chloride (PVC) • Chlorobenzenes • Chlorofluorocarbons (CFCs) & Hydrochlorofluorocarbons (HCFCs) • Formaldehyde (added) • Monomeric, polymeric and organo-phosphate halogenated flame retardants (HFRs) • Organotin Compounds • Perfluorinated Compounds (PFCs) • Phthalates (orthophthalates) • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAH) • Short-Chain and Medium-Chain Chlorinated Paraffins • Toxic Heavy Metals - Arsenic, Cadmium, Chromium, Lead (added), and Mercury • Wood treatments containing Creosote, Arsenic or Pentachlorophenol. See Section 1 for Volatile Organic Compounds (VOC) (wet applied products) information.

LATICRETE 252 Silver (White)

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HPD v2.2 created via HPDC Builder Page 5 of 6
The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

**KEY**

<table>
<thead>
<tr>
<th>Hazard Types</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AQU Aquatic toxicity</td>
<td></td>
</tr>
<tr>
<td>CAN Cancer</td>
<td></td>
</tr>
<tr>
<td>DEV Developmental toxicity</td>
<td></td>
</tr>
<tr>
<td>END Endocrine activity</td>
<td></td>
</tr>
<tr>
<td>EYE Eye irritation/corrosivity</td>
<td></td>
</tr>
<tr>
<td>GEN Gene mutation</td>
<td></td>
</tr>
<tr>
<td>GLO Global warming</td>
<td></td>
</tr>
<tr>
<td>LAN Land toxicity</td>
<td></td>
</tr>
<tr>
<td>MAM Mammalian/systemic/organ toxicity</td>
<td></td>
</tr>
<tr>
<td>MUL Multiple</td>
<td></td>
</tr>
<tr>
<td>NEU Neurotoxicity</td>
<td></td>
</tr>
<tr>
<td>NF Not found on Priority Hazard Lists</td>
<td></td>
</tr>
<tr>
<td>OZO Ozone depletion</td>
<td></td>
</tr>
<tr>
<td>PBT Persistent, bioaccumulative, and toxic</td>
<td></td>
</tr>
<tr>
<td>PHY Physical hazard (flammable or reactive)</td>
<td></td>
</tr>
<tr>
<td>REP Reproductive</td>
<td></td>
</tr>
<tr>
<td>RES Respiratory sensitization</td>
<td></td>
</tr>
<tr>
<td>SKI Skin sensitization/irritation/corrosivity</td>
<td></td>
</tr>
<tr>
<td>UNK Unknown</td>
<td></td>
</tr>
</tbody>
</table>

**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 (due to insufficient data)
- LT-P1 List Translator Possible 1 (Possible Benchmark-1)
- LT-1 List Translator 1 (Likely Benchmark-1)
- LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
- NoGS No GreenScreen.

**Recycled Types**
- PreC Pre-consumer recycled content
- PostC Post-consumer recycled content
- UNK Inclusion of recycled content is unknown
- None Does not include recycled content

**Other Terms:**
- GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

**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\(^\text{TM}\), and when available, full GreenScreen\(^\text{®}\) 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.