STONETECH® Bulletproof® Sealer
by LATICRETE International

HPD UNIQUE IDENTIFIER: 22461
CLASSIFICATION: 07 19 00 Water Repellents
PRODUCT DESCRIPTION: STONETECH® Bulletproof® Sealer is an ultra high performance, water-based sealer for use on interior and exterior applications of natural stone such as honed or textured marble, granite, limestone, travertine, sandstone, saltillo, and bluestone.

Section 1: Summary

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
- Yes Ex/SC
- Yes
- No

Explanation(s) provided for Residuals/Impurities?
- Yes
- No

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.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>SUBSTANCE</th>
<th>RESIDUAL OR IMPURITY</th>
<th>GREENSCREEN SCORE</th>
<th>HAZARD TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>STONETECH® BULLETPROOF® SEALER</td>
<td>WATER</td>
<td>BM-4</td>
<td>UNDISCLOSED</td>
<td>C4 PERFLUORINATED SURFACTANT</td>
</tr>
<tr>
<td>DIPROPYLENE GLYCOL N-BUTYL ETHER (DPNB)</td>
<td>LT-UNK</td>
<td>UNDISCLOSED</td>
<td>LT-P1</td>
<td>SKI</td>
</tr>
<tr>
<td>UNDISCLOSED</td>
<td>LT-P1</td>
<td>AQU</td>
<td>SKI</td>
<td>EYE</td>
</tr>
</tbody>
</table>

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
This HPD was created with Basic Inventory. STONETECH® Bulletproof® is a low-solids coating which means VOC content is expressed in grams of VOC per liter of material, not grams of VOC per liter of coating, less water (SCAQMD Rule #1113 Table of Standards (cont.) VOC limits). 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): 12
Regulatory (g/l): 380
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: N/A
VOC content: TDS 251 "Low VOC LATICRETE® Products"

CONSISTENCY WITH OTHER PROGRAMS
Pre-checked for LEED v4 Material Ingredients Option 1 and Option 2

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:
SCREENING DATE: 2020-10-13
PUBLISHED DATE: 2020-10-13
EXPIRY DATE: 2023-10-13
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 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

### STONETECH® BULLETPROOF® SEALER

**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 www.laticrete.com for occupational exposure information.

| WATER |  
| --- | --- |  
| **ID:** 7732-18-5 |  
| **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library | **HAZARD SCREENING DATE:** 2020-10-13  
| **%:** 90.0000 - 98.0000 | **GS:** BM-4 | **RC:** None | **NANO:** No | **SUBSTANCE ROLE:** Diluent  
| **HAZARD TYPE** | **AGENCY AND LIST TITLES** | **WARNINGS** |  
| None found |  
| **SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture. |  

| UNDISCLOSED |  
| --- | --- |  
| **ID:** 172616-04-5 |  
| **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library | **HAZARD SCREENING DATE:** 2020-10-13  
| **%:** 1.0000 - 3.0000 | **GS:** LT-UNK | **RC:** None | **NANO:** No | **SUBSTANCE ROLE:** Coating  
| **HAZARD TYPE** | **AGENCY AND LIST TITLES** | **WARNINGS** |  
| None found |  
| **SUBSTANCE NOTES:** The amount of this component may vary based on the 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. |  

| C4 PERFLUORINATED SURFACTANT |  
| --- | --- |  
| **ID:** 172616-04-5 |  
| **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library | **HAZARD SCREENING DATE:** 2020-10-13  
| **%:** 0.0500 - 0.1000 | **GS:** NoGS | **RC:** None | **NANO:** No | **SUBSTANCE ROLE:** Surfactant  
| **HAZARD TYPE** | **AGENCY AND LIST TITLES** | **WARNINGS** |  
| None found |  
| **SUBSTANCE NOTES:** The amount of this component may vary based on the 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. |  

| DIPROPYLENE GLYCOL N-BUTYL ETHER (DPNB) |  
| --- | --- |  
| **ID:** 29911-28-2 |  
| **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library | **HAZARD SCREENING DATE:** 2020-10-13  
| **%:** 0.0500 - 0.1000 | **GS:** NoGS | **RC:** None | **NANO:** No | **SUBSTANCE ROLE:** Surfactant  
| **HAZARD TYPE** | **AGENCY AND LIST TITLES** | **WARNINGS** |  
| None found |  
| **SUBSTANCE NOTES:** The amount of this component may vary based on the 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. |  

STONETECH Bulletproof Sealer  
https://hpdrepository.hpd-collaborative.org  
HPD v2.2 created via HPDC Builder Page 2 of 7
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2020-10-13

- **%:** 0.0500 - 0.3000  
  - **GS:** LT-UNK  
  - **RC:** None  
  - **NANO:** No  
  - **SUBSTANCE ROLE:** Solvent

**WARNINGs:**  
None found  
No warnings found on HPD Priority Hazard Lists

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

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UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2020-10-13

- **%:** 0.0500 - 0.0800  
  - **GS:** LT-P1  
  - **RC:** None  
  - **NANO:** No  
  - **SUBSTANCE ROLE:** Buffer

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

PHYSICAL HAZARD (REACTIVE)  
GHS - Korea  
H290 - May be corrosive to metals

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

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UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2020-10-13

- **%:** 0.0100 - 0.1000  
  - **GS:** NoGS  
  - **RC:** None  
  - **NANO:** No  
  - **SUBSTANCE ROLE:** Solvent

**WARNINGs:**  
None found  
No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** The amount of this component may vary based on the 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: 2020-10-13

- **%:** 0.0050 - 0.0100  
  - **GS:** LT-P1  
  - **RC:** None  
  - **NANO:** No  
  - **SUBSTANCE ROLE:** Biocide

**WARNINGs:**  
ACUTE AQUATIC  
EU - GHS (H-Statements)  
H400 - Very toxic to aquatic life

SKIN IRRITATION  
EU - GHS (H-Statements)  
H315 - Causes skin irritation

SKIN SENSITIZE  
EU - GHS (H-Statements)  
H317 - May cause an allergic skin reaction

EYE IRRITATION  
EU - GHS (H-Statements)  
H318 - Causes serious eye damage

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

SKIN SENSITIZE  
MAK  
Sensitizing Substance Sh - Danger of skin sensitization

**SUBSTANCE NOTES:** The amount of this component may vary based on the 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.
### Hazard Screening Method

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-13

<table>
<thead>
<tr>
<th>%:</th>
<th>GS:</th>
<th>RC:</th>
<th>NANO:</th>
<th>SUBSTANCE ROLE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0050 - 0.0100</td>
<td>BM-2</td>
<td>None</td>
<td>No</td>
<td>Biocide</td>
</tr>
<tr>
<td>0.0020 - 0.0200</td>
<td>BM-2</td>
<td>None</td>
<td>No</td>
<td>Solvent</td>
</tr>
</tbody>
</table>

### Hazard Type

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Agency and List Titles</th>
<th>Warnings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Multiple</strong></td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 3 - Severe Hazard to Waters</td>
</tr>
<tr>
<td><strong>Skin Sensitize</strong></td>
<td>MAK</td>
<td>Sensitizing Substance Sh - Danger of skin sensitization</td>
</tr>
<tr>
<td><strong>Endocrine</strong></td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
<td><strong>Acute Aquatic</strong></td>
<td>EU - GHS (H-Statements)</td>
<td>H400 - Very toxic to aquatic life</td>
</tr>
<tr>
<td><strong>Chronic Aquatic</strong></td>
<td>EU - GHS (H-Statements)</td>
<td>H410 - Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td><strong>Mammalian</strong></td>
<td>EU - GHS (H-Statements)</td>
<td>H301 - Toxic if swallowed</td>
</tr>
<tr>
<td><strong>Mammalian</strong></td>
<td>EU - GHS (H-Statements)</td>
<td>H311 - Toxic in contact with skin</td>
</tr>
<tr>
<td><strong>Skin Irritation</strong></td>
<td>EU - GHS (H-Statements)</td>
<td>H314 - Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td><strong>Skin Sensitize</strong></td>
<td>EU - GHS (H-Statements)</td>
<td>H317 - May cause an allergic skin reaction</td>
</tr>
<tr>
<td><strong>Eye Irritation</strong></td>
<td>EU - GHS (H-Statements)</td>
<td>H318 - Causes serious eye damage</td>
</tr>
<tr>
<td><strong>Mammalian</strong></td>
<td>EU - GHS (H-Statements)</td>
<td>H330 - Fatal if inhaled</td>
</tr>
</tbody>
</table>

### Substance Notes

The amount of this component may vary based on the 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.
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-13

<table>
<thead>
<tr>
<th>%:</th>
<th>0.0000 - 2.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Solvent</th>
</tr>
</thead>
</table>

**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 |

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

<table>
<thead>
<tr>
<th>Certifying Party:</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ISSUE DATE</strong></td>
<td>2020-10-13</td>
</tr>
<tr>
<td><strong>EXPIRY DATE</strong></td>
<td></td>
</tr>
<tr>
<td><strong>CERTIFIER OR LAB:</strong></td>
<td>LATICRETE</td>
</tr>
<tr>
<td><strong>APPLICABLE FACILITIES:</strong></td>
<td>Applies to All Facilities</td>
</tr>
<tr>
<td><strong>CERTIFICATION AND COMPLIANCE NOTES:</strong></td>
<td>STONETECH® BulletProof® Sealer has not been tested for VOC emissions.</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><strong>ISSUE DATE</strong></td>
<td>2020-08-12</td>
</tr>
<tr>
<td><strong>EXPIRY DATE</strong></td>
<td></td>
</tr>
<tr>
<td><strong>CERTIFIER OR LAB:</strong></td>
<td>LATICRETE</td>
</tr>
<tr>
<td><strong>APPLICABLE FACILITIES:</strong></td>
<td>Applies to All Facilities</td>
</tr>
<tr>
<td><strong>CERTIFICATE URL:</strong></td>
<td><a href="https://www.laticrete.com/~/media/support-and-downloads/technical-datasheets/tds251.ashx">https://www.laticrete.com/~/media/support-and-downloads/technical-datasheets/tds251.ashx</a></td>
</tr>
<tr>
<td><strong>CERTIFICATION AND COMPLIANCE NOTES:</strong></td>
<td>Meets LEED v4.1 Credit &quot;Low Emitting Materials&quot; Content Requirements per SCAQMD Rule 1113 (Low Solids Coating) and is calculated based on grams of VOC per liter of material.</td>
</tr>
</tbody>
</table>

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

STONETECH® BulletProof® Sealer meets the Living Building Challenge v4.0 requirement that the product does not contain any of the Red Listed Materials or Chemicals. Specifically, STONETECH BulletProof Sealer 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.
**MANUFACTURER INFORMATION**

**MANUFACTURER:** LATICRETE International  
**ADDRESS:** 1 Laticrete Park North  
Bethany CT 06524, USA  
**WEBSITE:** https://laticrete.com  

**CONTACT NAME:** Mitch Hawkins  
**TITLE:** Senior Manager, Technical Services  
**PHONE:** 203-393-4619  
**EMAIL:** wmhawkins@laticrete.com

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

**Recyed 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

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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.