CLASSIFICATION: 03 35 00

PRODUCT DESCRIPTION: A dry-shake concrete hardener made from a combination of 100% graded trap rock and portland cement. It is a polyhedral shaped, abrasion resistant, chemically inert, non-absorbent aggregate produced from igneous rock.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format
- Nested Materials Method
- Basic Method

Threshold Disclosed Per
- Material
- Product

Threshold level
- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

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

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

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.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY | GREENSCREEN SCORE | HAZARD TYPE
L&M™ TRAP ROCK™ | QUARTZLT-1 | CAN | PORTLAND CEMENT LT-P1 | CAN | END UNDISCLOSED LT-UNK UNDISCLOSED LT-P1

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 0.0
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: N/A
VOC content: TDS 251 “Low VOC LATICRETE Products”

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

PREPARER: Self-Prepared
VERIFIER: VERIFICATION #:
SCREENING DATE: 2017-03-27
PUBLISHED DATE: 2018-12-20
EXPIRY DATE: 2020-03-27

L&M TRAP ROCK
hpdrepository.hpd-collaborative.org
HPD v2.1.1 created via HPDC Builder Page 1 of 5
### L&M™ TRAP ROCK™

**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.

### QUARTZ

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2017-03-27  
**%:** 60.0000 - 70.0000  
**GS:** LT-1  
**RC:** None  
**NANO:** No  
**ROLE:** Aggregate  

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 1: Agent is carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td>CANCER</td>
<td>US NIH - Report on Carcinogens</td>
<td>Known to be Human Carcinogen (respirable size - occupational setting)</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 1 - Substances that cause cancer in man</td>
</tr>
</tbody>
</table>

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

### PORTLAND CEMENT

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2017-03-27  
**%:** 30.0000 - 40.0000  
**GS:** LT-P1  
**RC:** None  
**NANO:** No  
**ROLE:** Binder  

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
<td>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</td>
<td>HAZARD SCREENING DATE: 2017-03-27</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td>---------------------------------</td>
<td></td>
</tr>
<tr>
<td>%: 1.0000 - 3.0000</td>
<td>GS: LT-UNK</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RC: PreC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NANO: No</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ROLE: Binder</td>
<td></td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WARNINGS</td>
<td></td>
</tr>
</tbody>
</table>

No hazards 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.

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2017-03-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.1000 - 0.1500</td>
<td>GS: LT-P1</td>
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<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>ROLE: Water Reducer</td>
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<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
<tr>
<td></td>
<td>WARNINGS</td>
</tr>
</tbody>
</table>

No hazards 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.
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>Self-declared</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>Applies to All Facilities.</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2018-12-20</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td></td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>LATICRETE</td>
</tr>
</tbody>
</table>

**CERTIFICATION AND COMPLIANCE NOTES:** L&M™ TRAP ROCK™ has not been tested for VOC emissions.

**VOC CONTENT**

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Self-declared</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Applies to All Facilities.</td>
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<tr>
<td>CERTIFICATE URL:</td>
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<td>ISSUE DATE:</td>
<td>2018-12-18</td>
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<td></td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>LATICRETE</td>
</tr>
</tbody>
</table>

**CERTIFICATION AND COMPLIANCE NOTES:** Meets LEED v4 Credit "Low Emitting Materials" VOC Content Requirements per SCAQMD Rule 1113 (Default).

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

L&M™ TRAP ROCK™ meets the Living Building Challenge requirement that the product does not contain any of the Red Listed Materials or Chemicals. Specifically, L&M TRAP ROCK does not contain the following:

- Alkylphenols*
- Asbestos*
- Bisphenol A (BPA)*
- Cadmium
- Chlorinated Polyethylene & Chlorosulfonated Polyethylene
- Chlorobenzenes*
- Chlorofluorocarbons (CFCs) & Hydrochlorofluorocarbons (HCFCs)*
- Chloroprene (Neoprene)
- Chromium VI*
- Chlorinated Polyvinyl Chloride (CPVC)*
- Formaldehyde (all types - added)
- Halogenated Flame Retardants (HFRs)
- Lead (added)
- Mercury
- Polychlorinated Biphenyls (PCBs)*
- Perfluorinated Compounds (PFCs)*
- Phthalates
- Polyvinyl Chloride (PVC)
- Polyvinylidene Chloride (PVDC)*
- Short Chain Chlorinated Paraffins*
- Wood treatments containing Creosote, Arsenic or Pentachlorophenol. L&M TRAP ROCK also does not contain the following California-defined Group II toxic exempt solvents:
  - Methylene Chloride (Dichloromethane)
  - 1,1,1-trichloroethane (methyl chloroform)
  - Trichlorofluoromethane (CFC-11)
  - Dichlorofluoromethane (CFC-12)
  - 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)
  - 1,2-dichloro-1,1,2,2-tetrafluoroethane (CFC-114)
  - Chloropentafluoroethane (CFC-115)
  - Cyclic, Branched or Linear, Completely Methylated Siloxanes (VMS)
  - Tetrafluoroethylene (perchloroethylene)
  - Ethylfluoride (HFC-161)
  - 1,1,3,3,3-hexafluoropropane (HFC-236fa)
  - 1,1,2,3,3-pentafluoro propane (HFC-245ca)
  - 1,1,2,3,3-pentafluor propane (HFC-245ea)
  - 1,1,1,2,3-pentafluor propane (HFC-245eb)
  - 1,1,1,3,3-pentafluor propane (HFC-245fa)
  - 1,1,1,2,3-hexafluoropropane (HFC-236ea)
  - 1,1,1,3,3-pentafluorobutane (HFC-365mfc)
  - Chlorofluoromethane (HCFC-31)
  - 1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a)
  - 1 chloro-1-fluoroethane (HCFC-151a)
  - Methylene Chloride (Dichloromethane)
  - 1,1,1-trichloroethane (methyl chloroform)
  - Trichlorofluoromethane (CFC-11)
  - Dichlorofluoromethane (CFC-12)
  - 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)
  - 1,2-dichloro-1,1,2,2-tetrafluoroethane (CFC-114)
  - Chloropentafluoroethane (CFC-115)
  - Cyclic, Branched or Linear, Completely Methylated Siloxanes (VMS)
  - Tetrafluoroethylene (perchloroethylene)
  - Ethylfluoride (HFC-161)
  - 1,1,3,3,3-hexafluoropropane (HFC-236fa)
  - 1,1,2,3,3-pentafluoro propane (HFC-245ca)
  - 1,1,2,3,3-pentafluor propane (HFC-245ea)
  - 1,1,1,2,3-pentafluor propane (HFC-245eb)
  - 1,1,1,3,3-pentafluor propane (HFC-245fa)
  - 1,1,1,2,3-hexafluoropropane (HFC-236ea)
  - 1,1,1,3,3-pentafluorobutane (HFC-365mfc)
  - Chlorofluoromethane (HCFC-31)
  - 1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a)
  - 1 chloro-1-fluoroethane (HCFC-151a)
MANUFACTURER INFORMATION

MANUFACTURER: LATICRETE International  
CONTACT NAME: Mitch Hawkins  
ADDRESS: 1 Laticrete Park North  
Bethany CT 06524, USA  
PHONE: 203-393-4619  
EMAIL: wmhawkins@laticrete.com

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity  
CAN Cancer  
DEV Developmental toxicity  
END Endocrine activity  
EYE Eye irritation/corrosivity  
GEN Gene mutation  
GLO Global warming  
MAM Mammalian/systemic 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  
LAI Land Toxicity  
NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)  
BM-3 Benchmark 3 (use but still opportunity for improvement)  
BM-2 Benchmark 2 (use but search for safer substitutes)  
BM-1 Benchmark 1 (avoid - chemical of high concern)  
BM-U Benchmark Unspecified (insufficient data to benchmark)

Recycled Types

PreC Preconsumer (Post-Industrial)  
PostC Postconsumer  
Both Both Preconsumer and Postconsumer  
Unk Inclusion of recycled content is unknown  
None Does not include recycled content

Other Terms

Inventory Methods:
- Nested Method / Material Threshold: Substances listed within each material per threshold indicated per material
- Nested Method / Product Threshold: Substances listed within each material per threshold indicated per product
- Basic Method / Product Threshold: Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology  
Third Party Verified: Verification by independent certifier approved by HPDC  
Preparer Third party preparer, if not self-prepared by manufacturer  
Applicable facilities: Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.