L&M™ SEAL HARD™
by LATICRETE International

CLASSIFICATION: 03 05 00
PRODUCT DESCRIPTION: A COLORLESS, VOC FREE PRODUCT THAT INCREASES THE WEAR SURFACE STRENGTH OF CONCRETE FLOORS AND PENETRATES THE CONCRETE SURFACE TO SEAL, DUSTPROOF, DENSIFY, AND HARDEN.

Section 1: Summary

<table>
<thead>
<tr>
<th>CONTENT INVENTORY</th>
<th>Threshold per material</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 ppm</td>
<td>1,000 ppm</td>
</tr>
<tr>
<td>Per GHS SDS</td>
<td>Per OSHA MSDS</td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

Residuals and impurities considered in 0 of 1 materials

Based on the selected Content Inventory Threshold:

Characterized....................................................
Are the Percent Weight and Role provided for all substances? Yes

Screened..........................................................
Are all substances screened using Priority Hazard Lists with results disclosed? Yes

Identified......................................................
Are all substances disclosed by Name (Specific or Generic) and Identifier? Yes

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>L&amp;M™ SEAL HARD™</td>
<td>WATER</td>
<td>BM-4 Sodium Silicate</td>
<td>LT-P1</td>
<td>END</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.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 0.00
Regulatory (g/l):
Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: N/A

CERTIFICATIONS AND COMPLIANCE

VOC content: TDS 251 “Low VOC LATICRETE Products” C
See Section 3 for additional listings.

VERIFIER: SCREENING DATE: March 27, 2017
VERIFICATION #: RELEASE DATE: March 27, 2017
EXPIRY DATE*: March 27, 2020

* or within 3 months of significant change in product contents
Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

<table>
<thead>
<tr>
<th>Material</th>
<th>%:</th>
<th>HPD URL:</th>
<th>Inventory Threshold:</th>
<th>Residuals Considered:</th>
<th>Material Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>L&amp;M™ SEAL HARD™</td>
<td>100.0000</td>
<td></td>
<td>100 ppm</td>
<td>No</td>
<td>See SDS at <a href="http://www.laticrete.com">www.laticrete.com</a> for occupational exposure information.</td>
</tr>
<tr>
<td>WATER</td>
<td>85.0000 - 95.0000</td>
<td></td>
<td>GS: BM-4</td>
<td>RC: None</td>
<td>ROLE: Diluent</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>None Found</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The amount of this component may vary based on the plant of manufacture.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SODIUM SILICATE</td>
<td>10.0000 - 13.0000</td>
<td></td>
<td>GS: LT-P1</td>
<td>RC: None</td>
<td>ROLE: Hardener</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The amount of this component may vary based on the plant of manufacture.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>VOC CONTENT</th>
<th>TDS 251 &quot;Low VOC LATICRETE Products&quot; C</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>CERTIFICATE URL:</td>
<td></td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES:</td>
<td>Meets LEED v4 &quot;Low Emitting Materials&quot; VOC content requirements.</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 Declaration.
L&M™ SEAL HARD™ meets the Living Building Challenge requirement that the product does not contain any of the Red Listed Materials or Chemicals. Specifically, L&M SEAL HARD 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 SEAL HARD also does not contain the following California-defined Group II toxic exempt solvents:

- Methylene Chloride (Dichloromethane)
- 1,1,1-trichloroethane (methyl chloroform)
- Trichlorofluoromethane (CFC-113)
- 1,2-dichloro-1,1,2,2-tetrafluoroethane (CFC-114)
- Chloropentafluoroethane (CFC-115)
- Cyclic, Branched or Linear, Completely Methylated Siloxanes (VMS)
- Tetrachloroethylene (perchloroethylene)
- Ethylfluoride (HFC-161)
- 1,1,1,3,3,3-hexafluoropropane (HFC-236fa)
- 1,1,2,3,3-pentafluoropropane (HFC-245ca)
- 1,1,2,3,3-pentafluoropropane (HFC-245eb)
- 1,1,2,3,3-pentafluoropropane (HFC-245fa)
- 1,1,2,3,3-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-fluorothane (HCFC-151a)
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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

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

A disclosure completed in compliance with the HPD Open Standard is referred to as a “Health Product Declaration,” or “HPD.” 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 Open Standard noted.