L&M™ SEAL HARD™ (Concentrate) by LATICRETE International

CLASSIFICATION: 03 05 00

PRODUCT DESCRIPTION: L&M SEAL HARD is a concrete densifier that increases the strength of the wear surface of concrete floors subjected to pedestrian and vehicle traffic. SEAL HARD penetrates concrete to seal, dustproof, densify, and harden the surface and reduce absorptiveness.

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
  % 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
--- | --- | --- | --- | ---
L&M™ SEAL HARD™ (CONCENTRATE) | WATER | BM-4 | SODIUM SILICATE | LT-P1

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. The materials listed in Section 2 represent 100% of the product content.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

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

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

No pre-checks completed or disclosed.

Third Party Verified?
- Yes
- No

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

L&M SEAL HARD (Concentrate) hprepository.hpd-collaborative.org
HPD v2.1.1 created via HPDC Builder Page 1 of 5
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, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

L&M™ SEAL HARD™ (CONCENTRATE)

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: 2017-03-27

%: 60.0000 - 70.0000
GS: BM-4
RC: None
NANO: No
ROLE: Diluent

No hazards found

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

SODIUM SILICATE

ID: 1344-09-8

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: Sealer

ENDOCRINE
TEDX - Potential Endocrine Disruptors
Potential Endocrine Disruptor

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>Self-declared</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES</td>
<td>Applies to All Facilities.</td>
</tr>
<tr>
<td>ISSUE DATE</td>
<td>1201-12-18</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™ SEAL HARD™ (Concentrate) has not been tested for VOC emissions.

VOC CONTENT

<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>ISSUE DATE</td>
<td>2018-12-18</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: 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.

WATER

<table>
<thead>
<tr>
<th>HPD URL</th>
<th>No HPD Available</th>
</tr>
</thead>
</table>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
L&M™ SEAL HARD™ (Concentrate) to be mixed with water only at the ratio of 1 part water to 1 part L&M™ SEAL HARD™ (Concentrate).

Section 5: General Notes

L&M™ SEAL HARD™ (Concentrate) 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 (Concentrate) 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 (Concentrate) 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) • 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-245ea) • 1,1,1,2,3-pentafluoropropane (HFC-245eb) • 1,1,1,2,3,3-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-fluoroethane (HCFC-151a)
MANUFACTURER INFORMATION

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

CONTACT NAME: Mitch Hawkins
TITLE: Senior Manager, Technical Services
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/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)

BM-P1 List Translator Possible Benchmark 1
BM-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

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.