CLASSIFICATION: 03 05 00

PRODUCT DESCRIPTION: A concentrated, odorless, water-based polymer liquid that, when placed on fresh concrete, helps to control the rate of evaporation and extend workability. When applied to fresh concrete, E-CON reduces contractor field problems with exposed exterior concrete by minimizing surface crusting and plastic shrinkage cracks.

### Section 1: Summary

**Basic Method / Product Threshold**

**CONTENT INVENTORY**

<table>
<thead>
<tr>
<th>Inventory Reporting Format</th>
<th>Threshold disclosed Per</th>
<th>Residuals/Impurities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nested Materials Method</td>
<td>Material</td>
<td>Considered</td>
</tr>
<tr>
<td>Basic Method</td>
<td>Other</td>
<td>Partially Considered</td>
</tr>
</tbody>
</table>

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**

- L&M™ E-CON™ [WATER BM-4 UNDISCLOSED LT-P1 | MUL UNDISCLOSED BM-2 RES | SKI UNDISCLOSED LT-P1 | PBT UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | AQU | SKI | EYE | MUL]

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. 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): 63
- Regulatory (g/l): 63

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 #:**

**Third Party Verified?**

- Yes
- No

**SCREENING DATE:** 2018-08-28
**PUBLISHED DATE:** 2019-01-18
**EXPIRY DATE:** 2021-08-28

L&M™ E-CON™ by LATICRETE International

Health Product Declaration v2.1.1
created via: HPDC Online Builder
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](http://www.hpd-collaborative.org/hpd-2-1-standard)

### L&M™ E-CON™

**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](http://www.laticrete.com) for occupational exposure information.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%</th>
<th>GB</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER</td>
<td>Pharos Chemical and Materials Library</td>
<td>2018-08-28</td>
<td>90.0000 - 96.0000</td>
<td>BM-4</td>
<td>None</td>
<td>No</td>
<td>Diluent</td>
</tr>
<tr>
<td>UNDISCLOSED</td>
<td>Pharos Chemical and Materials Library</td>
<td>2018-08-28</td>
<td>2.0000 - 4.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Surfactant</td>
</tr>
<tr>
<td>UNDISCLOSED</td>
<td>Pharos Chemical and Materials Library</td>
<td>2018-08-28</td>
<td>0.5000 - 1.0000</td>
<td>BM-2</td>
<td>None</td>
<td>No</td>
<td>Diluent</td>
</tr>
</tbody>
</table>

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

**HAZARD TYPE**
- MULTIPLE: German FEA - Substances Hazardous to Waters
- Class 2 - Hazard to Waters

### OTHER INFORMATION

**WATER ID:** 7732-18-5
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESPIRATORY</td>
<td>AOEC - Asthmagens</td>
<td>Asthmagen (Rr&amp;Rs) - irritant-induced &amp; sensitizer-induced</td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H314 - Causes severe skin burns and eye damage</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.

---

### UNDISCLOSED

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  **HAZARD SCREENING DATE:** 2018-08-28

<table>
<thead>
<tr>
<th>%: 0.5000 - 0.6000</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Pigment</th>
</tr>
</thead>
</table>

**HAZARD TYPE** | **AGENCY AND LIST TITLES** | **WARNINGS**
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PBT</td>
<td>EC - CEPA DSL</td>
<td>Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms)</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.

---

### UNDISCLOSED

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  **HAZARD SCREENING DATE:** 2018-08-28

<table>
<thead>
<tr>
<th>%: 0.1000 - 0.2000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Preservative</th>
</tr>
</thead>
</table>

**HAZARD TYPE** | **AGENCY AND LIST TITLES** | **WARNINGS**
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>No hazards found</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.

---

### UNDISCLOSED

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  **HAZARD SCREENING DATE:** 2018-08-28

<table>
<thead>
<tr>
<th>%: 0.0500 - 0.1000</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Preservative</th>
</tr>
</thead>
</table>

**HAZARD TYPE** | **AGENCY AND LIST TITLES** | **WARNINGS**
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></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.
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACUTE AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H400 - Very toxic to aquatic life</td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H315 - Causes skin irritation</td>
</tr>
<tr>
<td>SKIN SENSITIZE</td>
<td>EU - GHS (H-Statements)</td>
<td>H317 - May cause an allergic skin reaction</td>
</tr>
<tr>
<td>EYE IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H318 - Causes serious eye damage</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
</tr>
<tr>
<td>SKIN SENSITIZE</td>
<td>MAK</td>
<td>Sensitizing Substance Sh - Danger of skin sensitization</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.
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>2018-01-16</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™ E-CON™ 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>CERTIFICATE URL:</td>
<td><a href="https://cdn.laticrete.com/~media/support-and-downloads/technical-datasheets/tds251.ashx">https://cdn.laticrete.com/~media/support-and-downloads/technical-datasheets/tds251.ashx</a></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2018-01-09</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).

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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>CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:</th>
</tr>
</thead>
<tbody>
<tr>
<td>L&amp;M™ E-CON™ to be diluted with water per mix ratio and directions as stated on product data sheet.</td>
</tr>
</tbody>
</table>

---

Section 5: General Notes

L&M™ E-CON™ meets the Living Building Challenge requirement that the product does not contain any of the Red Listed Materials or Chemicals. Specifically, L&M E-CON 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 E-CON 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) • 1,1,2,3,3-pentafluoropropane (HFC-245eb) • 1,1,3,3-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-fluoroethane (HCFC-151a)
Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: LATICRETE International  
CONTACT NAME: Mitch Hawkins

ADDRESS: 1 Laticrete Park North
Bethany CT 06524, USA

WEBSITE: www.laticrete.com

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/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)  
LT-P1 List Translator Possible Benchmark 1  
LT-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.