L&M™ LUMISEAL FX™
by LATICRETE International

CLASSIFICATION: 03 35 00
PRODUCT DESCRIPTION: L&M™ LUMISEAL FX™ is a high solids, water-based, non-yellowing, blush resistant curing and sealing compound. When used as a sealer, L&M LUMISEAL FX is designed to provide an attractive high gloss finish on concrete substrates.

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
- Per OSHA MSDS
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

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

100 ppm 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™ LUMISEAL FX™ [ WATER BM-4 | UNDISCLOSED | LT-UNK | 1,3-PENTANEDIOL, 2,2,4-TRIMETHYL-, MONOISOBUTYRATE LT-UNK | CAN UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK | SKI | EYE UNDISCLOSED LT-UNK UNDISCLOSED BM-2 | END | MUL UNDISCLOSED BM-2 | AQU | MAM | SKI | EYE | END | MUL UNDISCLOSED NoGS UNDISCLOSED LT-UNK ]

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest concern GreenScreen Benchmark or List translator Score ... LT-UNK
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): 116
Regulatory (g/l): N/A
Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: N/A

CERTIFICATIONS AND COMPLIANCE

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: 2020-03-17
PUBLISHED DATE: 2020-05-11
EXPIRY DATE: 2023-03-17
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 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

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**L&M™ LUMISEAL FX™**

**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.

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**WATER**

**ID:** 7732-18-5

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-03-17

**%:** 58.00 - 70.00  
**GS:** BM-4  
**RC:** None  
**NANO:** No  
**ROLE:** Diluent

**HAZARD TYPE**

<table>
<thead>
<tr>
<th>AGENT AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**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:** 2020-03-17

**%:** 30.00 - 40.00  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Film Forming Compound

**HAZARD TYPE**

<table>
<thead>
<tr>
<th>AGENT AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
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</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.

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**1,3-PENTANEDIOL, 2,2,4-TRIMETHYL-, MONOISOBUTYRATE**

**ID:** 25265-77-4

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-03-17

**%:** 1.00 - 2.50  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Coalescent
<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 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value</td>
</tr>
</tbody>
</table>

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

---

**UNDISCLOSED**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD:</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2020-03-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.10 - 0.20</td>
<td>GS: LT-UNK</td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Defoamer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**WARNINGS**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD:</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2020-03-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKIN IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H315 - Causes skin irritation</td>
</tr>
<tr>
<td>EYE IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H319 - Causes serious eye irritation</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.

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</tr>
</thead>
<tbody>
<tr>
<td>%: 0.10 - 0.30</td>
<td>GS: LT-UNK</td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Dispersant</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**WARNINGS**

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<td>SKIN IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H315 - Causes skin irritation</td>
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<td>EYE IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H319 - Causes serious eye irritation</td>
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**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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<tbody>
<tr>
<td>%: 0.10 - 0.20</td>
<td>GS: LT-UNK</td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Surfactant</td>
<td></td>
<td></td>
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<tr>
<td>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
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</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.
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</tr>
<tr>
<td><strong>WARNINGS</strong></td>
<td></td>
</tr>
</tbody>
</table>

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-03-17  
**%:** 0.10 - 0.20  
**GS:** BM-2  
**RC:** None  
**NANO:** No  
**ROLE:** Surfactant

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**

**ENDOCRINE**  
TEDX - Potential Endocrine Disruptors  
Potential Endocrine Disruptor

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

**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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**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-03-17  
**%:** 0.03 - 0.05  
**GS:** BM-2  
**RC:** None  
**NANO:** No  
**ROLE:** Preservative

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**

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

**CHRON AQUATIC**  
EU - GHS (H-Statements)  
H410 - Very toxic to aquatic life with long lasting effects

**MAMMALIAN**  
EU - GHS (H-Statements)  
H301 - Toxic if swallowed

**MAMMALIAN**  
EU - GHS (H-Statements)  
H311 - Toxic in contact with skin

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

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

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

**MAMMALIAN**  
EU - GHS (H-Statements)  
H330 - Fatal if inhaled

**ENDOCRINE**  
TEDX - Potential Endocrine Disruptors  
Potential Endocrine Disruptor

**MULTIPLE**  
German FEA - Substances Hazardous to Waters  
Class 3 - Severe Hazard to Waters

**SKIN SENSITIZER**  
MAK  
Sensitizing Substance Sh - Danger of skin sensitization

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

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<tr>
<td><strong>WARNINGS</strong></td>
<td></td>
</tr>
</tbody>
</table>

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-03-17  
**%:** 0.01 - 0.10  
**GS:** NoGS  
**RC:** None  
**NANO:** No  
**ROLE:** Defoamer

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**

None found  
No warnings found on HPD Priority Hazard Lists

L&M LUMISEAL FX  
hpdrepository.hpd-collaborative.org  
HPD v2.1.1 created via HPDC Builder Page 4 of 7
### 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

<table>
<thead>
<tr>
<th>Hazard Screening Method:</th>
<th>Pharos Chemical and Materials Library</th>
<th>Hazard Screening Date:</th>
<th>2020-03-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>%:</td>
<td>0.01 - 0.02</td>
<td>GS:</td>
<td>LT-UNK</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RC:</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ROLE:</td>
<td>Dispersant</td>
</tr>
</tbody>
</table>

### Hazard Type
None found

### Agency and List Titles

<table>
<thead>
<tr>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>No warnings found on HPD Priority Hazard Lists</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>
<th>ISSUE DATE: 2018-12-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>Applies to All Facilities.</td>
<td></td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES:</td>
<td>L&amp;M™ LUMISEAL FX™ has not been tested for VOC emissions.</td>
<td></td>
</tr>
</tbody>
</table>

**VOC CONTENT**

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Self-declared</th>
<th>ISSUE DATE: 2018-12-20</th>
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<td>APPLICABLE FACILITIES:</td>
<td>Applies to All Facilities.</td>
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</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES:</td>
<td>L&amp;M™ LUMISEAL FX™ does not meet LEED v4 Credit &quot;Low Emitting Materials&quot; VOC Content Requirements per SCAQMD Rule 1113 (Floor Coatings).</td>
<td></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

L&M™ LUMISEAL FX™ meets the Living Building Challenge v4.0 requirement that the product does not contain any of the Red Listed Materials or Chemicals. Specifically, L&M LUMISEAL FX 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), Polyvinylidiene 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

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)

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.