

CLASSIFICATION: 03 05 00

created via: HPDC Online Builder

PRODUCT DESCRIPTION: A COMPONENT OF THE FGS PERMASHINE FLOOR POLISHING SYSTEM, THIS PRODUCT IS FORMULATED TO INCREASE THE WEAR RESISTANCE AND SURFACE STRENGTH OF CONCRETE FLOORS WHICH HAVE BEEN MECHANICALLY GROUND, SMOOTHED AND POLISHED.

**Section 1: Summary**

**CONTENT INVENTORY**

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

- Residuals and impurities considered in 0 of 1 materials
- see Section 2: Material Notes
  - see Section 5: General Notes

Based on the selected Content Inventory Threshold:

Characterized.....	<input checked="" type="radio"/>	<input type="radio"/>
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	<input type="radio"/>	<input checked="" type="radio"/>
Are all substances disclosed by Name (Specific or Generic) and Identifier?	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™ FGS HARDENER PLUS™ [ WATER **BM-4** SODIUM SILICATE **LT-UNK** 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.

**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.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: February 1, 2017	EXPIRY DATE*: February 1, 2020
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: March 21, 2017	* or within 3 months of significant change in product contents
*See HPDC website for details			



## 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](http://www.hpd-collaborative.org) and [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org).

### L&M™ FGS HARDENER PLUS™

#: 100.0000

HPD URL:

Inventory Threshold: 100 ppm

Residuals Considered: No

Material Notes: See SDS at [www.laticrete.com](http://www.laticrete.com) for occupational exposure information.

#### WATER

ID: 7732-18-5

#: 87.0000 - 95.0000

GS: BM-4

RC: None

NANO: NO

ROLE: Diluent

#### HAZARDS:

#### AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

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

#### SODIUM SILICATE

ID: 1344-09-8

#: 10.0000 - 13.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Hardener

#### HAZARDS:

#### AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

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

#### UNDISCLOSED

#: 0.0100 - 0.0200

GS: LT-UNK

RC: None

NANO: NO

ROLE: Pigment

#### HAZARDS:

#### AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

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 CONTENT

CERTIFYING PARTY: Self-declared  
APPLICABLE FACILITIES: Applies to All Facilities  
CERTIFICATE URL:  
CERTIFICATION AND COMPLIANCE NOTES: Meets LEED v4 "Low Emitting Materials" VOC content requirements.

#### TDS 251 "Low VOC LATICRETE Products" C

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2017-02-06	0000-00-00	LATICRETE Lab

## + 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.

## E Section 5: General Notes

L&M™ FGS HARDENER PLUS™ meets the Living Building Challenge requirement that the product does not contain any of the Red Listed Materials or Chemicals. Specifically, L&M™ FGS HARDENER PLUS™ 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™ FGS HARDENER PLUS™ 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) •1,1,1,3,3-pentafluoropropane (HFC-245fa) •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

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## 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

**GLO** Global warming

**PHY** Physical Hazard (reactive)

**CAN** Cancer

**MAM** Mammalian/systemic/organ toxicity

**REP** Reproductive toxicity

**DEV** Developmental toxicity

**MUL** Multiple hazards

**RES** Respiratory sensitization

**END** Endocrine activity

**NEU** Neurotoxicity

**SKI** Skin sensitization/irritation/corrosivity

**EYE** Eye irritation/corrosivity

**OZO** Ozone depletion

**LAN** Land Toxicity

**GEN** Gene mutation

**PBT** Persistent Bioaccumulative Toxic

**NF** Not found on Priority Hazard Lists

### GreenScreen (GS)

**BM-4** Benchmark 4 (prefer-safer chemical)

**LT-P1** List Translator Possible Benchmark 1

**BM-3** Benchmark 3 (use but still opportunity for improvement) BM-2  
Benchmark 2 (use but search for safer substitutes)

**LT-1** List Translator Likely Benchmark 1

**BM-1** Benchmark 1 (avoid - chemical of high concern)

**LT-UNK** List Translator Benchmark Unknown (insufficient  
information from List Translator lists to benchmark)

**BM-U** Benchmark Unspecified (insufficient data to benchmark)

**UNK** 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

**Nano** Composed of nanoscale particles or nanotechnology

### Declaration Level

**Self-declared** Manufacturer's self-declaration (First Party)

**Independent Lab** Manufacturer's self-declaration using results from an independent lab

**Second Party** Verification by trade association or other interested party

**Third Party** Verification by independent certifier

**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 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.