L&M[™] CHEM HARD[™] by LATICRETE International

HPD UNIQUE IDENTIFIER: 31589

CLASSIFICATION: 03 00 00 Concrete

PRODUCT DESCRIPTION: L&MTM CHEM HARDTM is a low VOC, colorless solution which reacts chemically with components of concrete to form a dense, insoluble, chemical-resistant surface. Can be applied to fresh or hardened concrete as a hardener and dustproofer.

Section 1: Summary

CONTENT INVENTORY Threshold Level For all contents above the threshold, the manufacturer has: **Inventory Reporting Residuals/Impurities Evaluation** Format Characterized ⊙ Yes ○ No • 100 ppm Completed C Nested Materials Method C 1,000 ppm C Partially Completed Provided weight and role. Basic Method O Per GHS SDS O Not Completed Screened ⊙ Yes ○ No C Other Provided screening results using HPDC-approved Threshold Disclosed Per Explanation(s) provided : methods. ⊙ Yes ○ No O Material Identified ⊙ Yes ○ No • Product Provided name and CAS RN or other identifier. CONTENT IN DESCENDING ORDER OF QUANTITY Number of Greenscreen BM-4/BM3 contents ... 1 Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the LT-P1 GreenScreen for Safer Chemicals®. The HPD does not assess whether Nanomaterial ... No using or handling this product will expose individuals to its chemical INVENTORY AND SCREENING NOTES: substances or any health risk. Refer to Section 2 for further details. PRODUCT | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY **GREENSCREEN SCORE** | HAZARD TYPE This HPD was created with Basic Inventory. The materials listed in L&M[™] CHEM HARD[™] [WATER BM-4 SODIUM SILICATE LT-P1 | END Section 2 represent 100% of the product content. |SKI|EYE] **VOLATILE ORGANIC COMPOUND (VOC) CONTENT CERTIFICATIONS AND COMPLIANCE** See Section 3 for additional Material (g/l): 0.00 Regulatory (g/l): N/A listinas. Does the product contain exempt VOCs: No VOC emissions: CDPH Standard Method - Not tested Are colorants available that do not increase the VOC content of the VOC content: EPA Method 24 - Volatile Matter Content (EPA 24) base paint when tinted: N/A CONSISTENCY WITH OTHER PROGRAMS Pre-checked for LEED v4 Option 1. Pre-checked for LEED v4 Option 2. Pre-checked for LEED v4.1 Option 1. SCREENING DATE: 2022-09-16

Third Party Verified? O Yes No

PREPARER: Self-Prepared VERIFIER: **VERIFICATION #:**

PUBLISHED DATE: 2023-03-03 EXPIRY DATE: 2025-09-16

Health Product Declaration v2.3

created via: HPDC Online Builder

Basic Method / Product Threshold

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.

potentially greater than 100 ppm.

- 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 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

L&M™ CHEM HARD™		
PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes	
RESIDUALS AND IMPURITIES NOTES: Residuals	and impurities are measured by quantitative methods and are only displayed when they are	

OTHER PRODUCT NOTES: See SDS at www'laticrete.com for occupational exposure information.

WATER

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SC	REENING DATE:	2023-02-09 20:55:48
%: 80.0000 - 90.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Diluent
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No warr	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
EXEMPT	European Union / European Cor (EU EC)	mission	EU - REACH Exemptions	
			Exempted from REACH Annex IV listing due to intrinsic safety	

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

SODIUM SILICATE ID: 1344-09-8								
HAZARD DATA SOURCE: Pharos Chemical and Materials Library HA		HAZARD SO	CREENING DATE:	2023-02-09 20:55:50				
%: 10.0000 - 15.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Surface modifier				
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS					
END	TEDX - Potential Endocrine Disr	TEDX - Potential Endocrine Disruptors		Potential Endocrine Disruptor				
SKI	GHS - New Zealand	GHS - New Zealand		Skin corrosion category 1C				
EYE	GHS - New Zealand	GHS - New Zealand		Serious eye damage category 1				
SKI	GHS - Australia	GHS - Australia		H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]				
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION					
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Class	ses of Problematic Chemicals				
			Antimicrobials					

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

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	CDPH Standard Method - Not tested			
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: Applies to All Facilities. CERTIFICATE URL:	ISSUE DATE: 2022-08-29 EXPIRY DATE:	CERTIFIER OR LAB: None		
ERTIFICATION AND COMPLIANCE NOTES: L&M™ CHEM HARD™ has not been tested for VOC emissions.				
VOC CONTENT	EPA Method 24 - Volatile Matter Content (EPA 24)			
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: Applies to All Facilities. CERTIFICATE URL: https://cdn.laticrete.com/~/media/health-product- datasheets/lm/chem-hard-hpd.ashx	ISSUE DATE: 2023-01-23 EXPIRY DATE:	CERTIFIER OR LAB: LATICRETE		
CERTIFICATION AND COMPLIANCE NOTES: Meets LEED v4.1 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.

No accessories are required for this product.

Section 5: General Notes

L&M[™] CHEM HARD[™] meets the Living Building Challenge v4.1 (March 2022) requirement that the product does not contain any of the Red Listed Materials or Chemicals. Specifically, L&M CHEM HARD 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: Director, Technical Services PHONE: 203-393-4619 EMAIL: wmhawkins@laticrete.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity CAN Cancer DEV Developmental toxicity END Endocrine activity EYE Eye irritation/corrosivity GEN Gene mutation GLO Global warming LAN Land toxicity MAM Mammalian/systemic/organ toxicity MUL Multiple NEU Neurotoxicity NF Not found on Priority Hazard Lists OZO Ozone depletion PBT Persistent, bioaccumulative, and toxic PHY Physical hazard (flammable or reactive) REP Reproductive RES Respiratory sensitization SKI Skin sensitization/irritation/corrosivity UNK Unknown

LT-P1 List Translator Possible 1 (Possible Benchmark-1) LT-1 List Translator 1 (Likely Benchmark-1) LT-UNK List Translator Benchmark Unknown NoGS No GreenScreen.

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 (due to insufficient data)

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, www.greenscreenchemicals.org, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

Recycled Types

PreC Pre-consumer recycled content PostC Post-consumer recycled content UNK Inclusion of recycled content is unknown None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

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.