LATICRETE® HYDRO BAN® by LATICRETE International

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 09 34 00

PRODUCT DESCRIPTION: LATICRETE® HYDRO BAN® is a thin, load bearing waterproofing/crack isolation membrane that DOES NOT require the use of fabric in the field, coves or corners. LATICRETE HYDRO BAN is a single component selfcuring liquid rubber polymer that forms a flexible, seamless waterproofing membrane. LATICRETE HYDRO BAN bonds directly to a wide variety of substrates.



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
- C 1,000 ppm
- Per GHS SDS
- C Per OSHA MSDS C Other
- Residuals/Impurities
- Considered
- C Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?

Yes No

All Substances Above the Threshold Indicated Are:

Characterized

% weight and role provided for all substances.

Screened

○ Yes Ex/SC Yes No

All substances screened using Priority Hazard Lists with results disclosed.

Identified

O Yes Ex/SC O Yes O 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

LATICRETE HYDRO BAN [UNDISCLOSED NoGS WATER BM-4 UNDISCLOSED LT-UNK ZINC OXIDE BM-1 | RES | AQU | MUL UNDISCLOSED BM-1 | DEL | END TITANIUM DIOXIDE LT-1 | CAN | END UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | SKI UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED BM-1 MUL UNDISCLOSED BM-2 | END | MUL | SKI UNDISCLOSED LT-P1 | AQU | SKI | EYE | MUL OCTAMETHYLCYCLOTETRASILOXANE (D4) BM-1 | END | PBT | MUL | REP UNDISCLOSED BM-2 | CAN | PHY | END | REP | DEL TITANIUM DIOXIDE COMPOUNDS (TITANIUM DIOXIDE COMPOUNDS) LT-1 Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1

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

Regulatory (g/l): N/A 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: UL GreenGuard Gold (HYDRO BAN) VOC content: TDS 251 "Low VOC LATICRETE® Products"

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

C Yes

No

CAN]

PREPARER: Self-Prepared

VFRIFIFR. VERIFICATION #: **SCREENING DATE: 2018-11-14** PUBLISHED DATE: 2018-12-21 EXPIRY DATE: 2021-11-14



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

LATICRETE HYDRO BAN

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.

UNDISCLOSED

HAZARD SCREENING METHOD: Pharo	HAZARD SCREENI	NG DATE: 2018-11-1	4	
%: 30.0000 - 40.0000	GS: NoGS	RC: None	nano: No	ROLE: Filler
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
	No hazards found			

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.

WATER ID: 7732-18-5 HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2018-11-14 %: 25.0000 - 35.0000 ROLE: Diluent GS: BM-4 RC: None NANO: NO HAZARD TYPE AGENCY AND LIST TITLES WARNINGS No hazards found

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

UNDISCLOSED

HAZARD SCREENING METHOD: Ph	aros Chemical and Materials Library	HAZARD SCREENING DATE: 2018-11-14			
%: 22.0000 - 30.0000	GS: LT-UNK	RC: None	nano: No	ROLE: Polymer	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			

No hazards found

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.

ZINC OXIDE ID: 1314-13-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2018-11-14			
%: 1.0000 - 2.0000	GS: BM-1	RC: None	RC: None NANO: No ROLE: Cure Accelera			
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	WARNINGS			
RESPIRATORY	AOEC - Asthmagens	Asthm	Asthmagen (Rs) - sensitizer-induced			
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 -	H400 - Very toxic to aquatic life			
CHRON AQUATIC	EU - GHS (H-Statements)	H410 -	H410 - Very toxic to aquatic life with long lasting effects			
MULTIPLE	German FEA - Substances Hazardous t Waters	o Class 2	2 - Hazard to Wat	ters		

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

UNDISCLOSED

%: 0.3000 - 1.0000 GS: BM-1 RC: None NANO: No ROLE: Freeze/Thaw State WARNINGS DEVELOPMENTAL CA EPA - Prop 65 Developmental toxicity	
	lizer
DEVELOPMENTAL CA EPA - Prop 65 Developmental toxicity	
DEVELOPMENTAL US NIH - Reproductive & Developmental Clear Evidence of Adverse Effects - Developmental Monographs	tal Toxicity
ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor	

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.

TITANIUM DIOXIDE ID: 13463-67-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREEN	HAZARD SCREENING DATE: 2018-11-14			
%: 0.3000 - 0.5000	GS: LT-1	RC: None	RC: None NANO: No ROLE: Pigment			
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS				
CANCER	US CDC - Occupational Carcinogens	Occupation	Occupational Carcinogen			
CANCER	CA EPA - Prop 65	Carcinogen	Carcinogen - specific to chemical form or exposure route			
CANCER	IARC		Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources			

TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

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

UNDISCLOSED

HAZARD SCREENING METHOD: Pr	HAZARD SCREEN	IING DATE: 2018- 1	11-14	
%: 0.2000 - 0.6000	GS: NoGS	RC: None	NANO: No	ROLE: Drying Agent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
	No hazards found			

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

HAZARD SCREENING METHOD: Ph	HAZARD SCREEN	NING DATE: 2018-1	1-14	
%: 0.2000 - 0.6000	GS: LT-UNK	RC: None	nano: No	ROLE: Thickener
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
	No hazards found			

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

HAZARD SCREENING METHOD: Pharos	HAZARD SCREEN	ING DATE: 2018-1	1-14	
%: 0.1000 - 0.2000	GS: LT-P1	RC: None	NANO: No	ROLE: pH Adjuster
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage		

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

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-11-14

%: 0.1000 - 0.3000	GS: LT-UNK	RC: None	nano: No	ROLE: Pigment
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
	No hazards found			

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

HAZARD SCREENING METHOD: Ph	HAZARD SCREEN	IING DATE: 2018-11	I-14	
%: 0.1000 - 0.3000	GS: LT-UNK	RC: None	NANO: No	ROLE: Pigment
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
	No hazards found			

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

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			NING DATE: 2018-	11-14
%: 0.0100 - 0.0300	GS: BM-1	RC: None	nano: No	ROLE: Anti-Microbial
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe 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. There are no known impurities which are greater than 1,000 ppm.

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2018-11-14		
%: 0.0100 - 0.0200	GS: BM-2	RC: None	nano: No	ROLE: Preservative
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters		
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization		

SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture. This product is shown as undisclosed to

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2018-11-14		
%: 0.0020 - 0.0030	GS: LT-P1	RC: None NANO: No ROLE: Preservativ	re	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life		
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation		
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction		
EYE IRRITATION	EU - GHS (H-Statements)	H318 - Causes serious eye damage		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitiz	ation	

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.

OCTAMETHYLCYCLOTETRASILOXANE (D4)

ID: **556-67-2**

HAZARD SCREENING METHOD: Ph	naros Chemical and Materials Library	HAZARD SCREENING DATE: 2018-11-14		
%: 0.0010 - 0.0020	GS: BM-1	RC: None NANO: No ROLE: Defoamer		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
ENDOCRINE	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity		
PBT	EU - ESIS PBT	Under PBT evaluation		
PBT	EU - SVHC Authorisation List	PBT - Candidate list		
PBT	EU - SVHC Authorisation List	νΡνΒ - Candidate list		
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1		
РВТ	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms)		
РВТ	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans		
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - Action Plan in development		
REPRODUCTIVE	EU - GHS (H-Statements)	H361f - Suspected of damaging fertility		
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant		
ENDOCRINE	ChemSec - SIN List	Endocrine Disruption		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		

	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - ongoing chemical (risk) assessment

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

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2018-11-14		
%: 0.0005 - 0.0007	GS: BM-2	RC: None	nano: No	ROLE: Co-solvent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans		
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential E	indocrine Disrupto	r
CANCER	MAK	•	n Group 5 - Genoto under MAK/BAT le	oxic carcinogen with very vels
CANCER	Japan - GHS	Carcinoge	nicity - Category 1	A
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A		
DEVELOPMENTAL	CA EPA - Prop 65	Developmental - specific to chemical form or exposur route		hemical form or exposure

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.

TITANIUM DIOXIDE COMPOUNDS (TITANIUM DIOXIDE COMPOUNDS)

ID: Not registered

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2018-11-14		
%: Impurity/Residual	GS: LT-1	RC: None NANO: No ROLE: Impurity	y/Residual	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen		
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or	exposure route	
CANCER	IARC	Group 2B - Possibly carcinogenic to huma occupational sources	ans - inhaled from	
CANCER	MAK	Carcinogen Group 3A - Evidence of carcin but not sufficient to establish MAK/BAT va	•	

SUBSTANCE NOTES: This substance is an impurity or residual. This impurity/residual may or may not be present based on the source of the raw material and, if present, may or may not be greater than 100 ppm.



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

UL GreenGuard Gold (HYDRO BAN)

CERTIFYING PARTY: Third Party

ISSUE DATE: 2009-

EXPIRY DATE: 2019-

CERTIFIER OR LAB: UL

APPLICABLE FACILITIES: Applies to All Facilities

07-07

12-09

Environment

CERTIFICATE URL:

http://certificates.ulenvironment.com/default.aspx?

id=3595&t=cs

CERTIFICATION AND COMPLIANCE NOTES: Meets LEED v4 "Low Emitting Materials" Emissions Requirements. This product was tested in accordance with California Department of Public Health (CDPH) v1.2-2017 in an office and classroom environment.

VOC CONTENT

TDS 251 "Low VOC LATICRETE® Products"

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2018-

EXPIRY DATE:

CERTIFIER OR LAB: LATICRETE

APPLICABLE FACILITIES: Applies to All Facilities.

12-18

CERTIFICATE URL:

https://cdn.laticrete.com/~/media/support-anddownloads/technical-datasheets/tds251.ashx

CERTIFICATION AND COMPLIANCE NOTES: Meets LEED v4 Credit "Low Emitting Materials" VOC Content Requirements per SCAQMD Rule 1113 (Waterproofing Sealers).



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

LATICRETE® HYDRO BAN® meets Living Building Challenge requirements, but it does contain a component which is found on the Red Listed Materials or Chemicals. Specifically, LATICRETE HYDRO BAN contains a small amount (0.0018%) of Octamethylcyclotetrasiloxane (D4) as stated in Section 2 of this HPD. The amount of the stated material is below the maximum threshold as stated in the LBC Small Component Clause.

MANUFACTURER INFORMATION

MANUFACTURER: LATICRETE International

ADDRESS: 1 Laticrete Park North

Bethany CT 06524, USA

WEBSITE: www.laticrete.com

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TITLE: Senior Manager, Technical Services

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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

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 (insuficient data to benchmark)

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

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)

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.