Health Product Declaration v2.3 CLASSIFICATION: 03 30 00 Cast-in-Place Concrete HPD UNIQUE IDENTIFIER: 54045499392

Product Description

Thinfilm 447 is a water-based, pigmented concrete curing compound specially designed for both highways and commercial construction. These curing compounds form a thin membrane when sprayed or brushed on freshly finished concrete surfaces.



Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting

Format

Nested Materials Method

C Basic Method

Threshold Disclosed Per

Material

Product

Threshold Level

C 1,000 ppm C Per GHS SDS

Other

Residuals/Impurities Evaluation

Completed in 4 of 4 Materials

Explanation(s) provided for Residuals/Impurities?

Yes ○ No

For all contents above the threshold, the manufacturer has:

Characterized

Yes ○ No

Provided weight and role.

Screened

Yes ○ No

Provided screening results using HPDC-approved

methods.

Identified ⊙ Yes ○ No

Provided name and CAS RN or other identifier.

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.

NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR **IMPLIRITY**

GREENSCREEN SCORE | HAZARD TYPE

SOLVENT [WATER BM-4] FILM FORMER [SLACK WAX (PETROLEUM) LT-1 | CAN | MUL | DEV] PIGMENT [TITANIUM DIOXIDE LT-1 | CAN | END | MAM] SURFACTANT [STEARIC ACID LT-P1 | END]

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-1, LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This HPD was produced using primary information from the manufacturer, including CAS numbers and SDS when needed. The manufacturer has made every effort to report the substances in this product to the listed threshold. This is a voluntary, self-reported effort. Any errors or omissions shall be considered a human error and therefore reported to the manufacturer. The manufacturer shall not be liable for omissions

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): <5 Regulatory (g/l): 100

Does the product contain exempt VOCs: No

Are colorants available that do not increase the VOC content of the

base paint when tinted: N/A

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method - Not tested VOC content: MAS Certified Green - VOC Content

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

O Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2023-07-12 PUBLISHED DATE: 2023-12-15

EXPIRY DATE: 2026-07-12

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

SOLVENT %: 70.0000 - 75.0000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Other: Water

RESIDUALS AND IMPURITIES NOTES: Impurities listed above the threshold by Quartz or Pharos databases are noted in this HPD. Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD." This includes average data declared in the common product database or peerreviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold.

OTHER MATERIAL NOTES: No residual or impurities are registered for this substance -Per the Pharos database.

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	/	HAZARD S	CREENING DATE:	2023-07-12 15:11:1
%: 100.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE F	ROLE: Diluent
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No warni	ngs found on HPD	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
EXEMPT	European Union / European Co (EU EC)	ommission	EU - REACH Exer	nptions	
	(20 20)		Evenented from D	EACH Anney IV list	ing due to intrinsic

FILM FORMER %: 18.0000 - 25.0000

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes PRODUCT THRESHOLD: 100 ppm MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Impurities listed above the threshold by Quartz or Pharos databases are noted in this HPD. Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD." This includes average data declared in the common product database or peerreviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold.

SLACK WAX (PETROLEUM) ID: 64742-61-6

HAZARD DATA SOURCE:	Pharos Chemical and Materials Lib	aros Chemical and Materials Library		HAZARD SCREENING DATE: 2023-07-12 15:11:16		
%: 100.0000	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Film former		
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS			
CAN	EU - Annex VI CMRs	EU - Annex VI CMRs		Carcinogen Category 1B - Presumed Carcinogen based on animal evidence		
MUL	ChemSec - SIN List		CMR - Carcinogen, Mutagen &/or Reproductive Toxicant			
MUL	German FEA - Substances Waters	Hazardous to	Class 3 - Severe Hazard to Waters			
CAN	GHS - Australia		H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]			
CAN	EU - GHS (H-Statements) A	nnex 6 Table 3-1	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]			
DEV	GHS - Australia		H361d - Suspected of damaging the unborn child [Reproductive toxicity - Category 2]			
CAN	EU - REACH Annex XVII CM	/IRs	Carcinogens: Category 1B			
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION			
RESTRICTED LIST	Cradle to Cradle Products Institute (C2CPII)	Innovation		Product Standard Restricted (RSL) - Effective July 1, 2022		
			Formulated Cons	sumer Products		

SUBSTANCE NOTES: Slack wax, a complex combination of hydrocarbons obtained from a petroleum fraction by solvent crystallization (solvent dewaxing) or as a distillation fraction from a very waxy crude.

PIGMENT	%: 2.0000 - 5.0000	
PRODUCT THRESHOLD: 100	RESIDUALS AND IMPURITIES EVALUATION COMPLETED:	MATERIAL TYPE: Geologically Derived
mag	Yes	Material

RESIDUALS AND IMPURITIES NOTES: Impurities listed above the threshold by Quartz or Pharos databases are noted in this HPD. Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD." This includes average data declared in the common product database or peer-reviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold.

OTHER MATERIAL NOTES: Percentages are shown in a range to protect the actual formulation.

TITANIUM DIOXIDE ID: 13463-67-7

HAZARD DATA SOURCE:	ARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-07-12 15:11:10		
⁄o: 99.0000	GreenScreen: LT-1	RC: None	NANO: Unknown	SUBSTANCE ROLE: Pigment	
HAZARD TYPE	LIST NAME AND SOURC	E	WARNINGS		
CAN	US CDC - Occupational C	Carcinogens	Occupational Carcinogen		
CAN	CA EPA - Prop 65		Carcinogen - specific route	to chemical form or exposure	
CAN	IARC		Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources		
CAN	MAK		Carcinogen Group 3A - Evidence of carcinogenic effet but not sufficient to establish MAK/BAT value		
END	TEDX - Potential Endocri	ne Disruptors	Potential Endocrine Disruptor		
CAN	MAK		Carcinogen Group 4 - Non-genotoxic carcinogen wit low risk under MAK/BAT levels		
CAN	IARC		Group 2b - Possibly carcinogenic to humans		
CAN	EU - GHS (H-Statements)	Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicit Category 2]		
CAN	GHS - Japan		H351 - Suspected of Category 2]	causing cancer [Carcinogenicity -	
MAM	GHS - Japan		repeated exposure [S	ge to organs through prolonged of Specific target organs/systemic eated exposure - Category 1]	
CAN	EU - Annex VI CMRs		Carcinogen Category	v 2 - Suspected human Carcinoge	
ADDITIONAL LISTINGS	LIST NAME AND SOURC	E	NOTIFICATION		
RESTRICTED LIST	Cradle to Cradle Product Institute (C2CPII)	s Innovation		duct Standard Restricted .) - Effective July 1, 2022	
			Formulated Consume	er Products	
RESTRICTED LIST	Cradle to Cradle Product Institute (C2CPII)	s Innovation		duct Standard Restricted .) - Effective July 1, 2022	
			Cosmetics & Persona	al Care Products	
POSITIVE LIST	US Environmental Protec	tion Agency (US	US EPA - DfE Safer C	Chemicals Ingredients list (SCIL)	
			Colorants - Green Cir	rcle (Verified Low Concern)	

SUBSTANCE NOTES: Percentages >10% are used to disguise formulas covered as intellectual property.

SURFACTANT %: 1.0000 - 3.0000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Impurities listed above the threshold by Quartz or Pharos databases are noted in this HPD. Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD." This includes average data declared in the common product database or peer-reviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold.

OTHER MATERIAL NOTES: Percentages are shown in a range to protect the actual formulation.

STEARIC ACID ID: 5					
HAZARD DATA SOURCE:	DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-07-12 15:11:17		
%: 100.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Surfactant	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
END	TEDX - Potential Endocrine	e Disruptors	Potential Endocr	ine Disruptor	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
None found			No I	istings found on Additional Hazard Lists	

SUBSTANCE NOTES: No residuals or impurities at or above 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

CDPH Standard Method - Not tested

CERTIFYING PARTY: Self-declared

APPLICABLE FACILITIES: This is not a facility based

declaration.

CERTIFICATE URL:

ISSUE DATE: 2023-07-15

EXPIRY DATE:

CERTIFIER OR LAB: None

MAS Certified Green - VOC Content

CERTIFYING PARTY: Self-declared

APPLICABLE FACILITIES: This is not a facility based

CERTIFICATION AND COMPLIANCE NOTES:

certification.

VOC CONTENT

CERTIFICATE URL:

ISSUE DATE: 2023-07-15 **EXPIRY DATE:**

CERTIFIER OR LAB: Kaufman

Products

CERTIFICATION AND COMPLIANCE NOTES: This is not a MAS Green Certified. As per SDS VOC content < 5 grams/liter.

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

Kaufman Products now further develops these products by emulsifying them into a low VOC formula for a safer atmosphere. Thinfilms contain pure titanium dioxide pigment to reflect the heat of the sun. Due to the unique emulsification process, Kaufman Products white-pigmented cures do not settle and hard pack. Instead, they softly layer for easy re-mixing with air hoses.

Specifications:

Thinfilm 447: Wax Based ASTM C-309, Type II, Class A AASHTO M-148, Type II, Class A

Packaging:

5 gallon pail

55 gallon drum

275 gallon tote

Precautions:

Wax based curing compounds are ruined if allowed to freeze or are handled by highspeed pumps or agitators.

MANUFACTURER INFORMATION

MANUFACTURER: Kaufman Products, Inc.

ADDRESS: 3811 Curtis Avenue Baltimore, Maryland 21226 COUNTRY: United States WEBSITE: www.kaufmanproducts.net CONTACT NAME: Alex Kaufman

TITLE: President PHONE: 4103548600

EMAIL: akaufman@kaufmanproducts.net

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

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)

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 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