KAUFMAN **K Pro UC Epoxy Grout**

Health Product Declaration v2.3 CLASSIFICATION: 03 63 00 Epoxy Grouting HPD UNIOUE IDENTIFIER: 1561561088

Product Description

K Pro UC Epoxy Grout is a marine-grade, 100% solids, two component, extended pot life, and moisture insensitive epoxy resin system, specifically engineered for use in the restoration of structural pile members in underwater applications. K Pro UC Epoxy Grout is a low viscosity resin that may be filled with aggregate to produce a flowable, pumpable, and pourable epoxy grout. K Pro UC Epoxy Grout does not contain fillers or non-reactive diluents, may be used in fresh, salt, or brackish water, and bonds effectively to wood, concrete, steel, and fiberglass pile jackets.





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 10 of 10 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 **IMPURITY**

GREENSCREEN SCORE | HAZARD TYPE

FILLER (AGGREGATE) [QUARTZ BM-1* | CAN | MAM | GEN] POLYMER (PART A) [BISPHENOL A EPICHLOROHYDRIN POLYMER LT-P1 | MUL | SKI | EYE | AQU | CURING AGENT 1 (PART B) [ADIPONITRILE LT-UNK | MAM | SKI | EYE] DILUTENT (PART A) [((2-METHYLPHENOXY)METHYL)OXIRANE LT-P1 | MUL | SKI | AQU | GEN | MAM] FLY ASH (AGGREGATE) [FLY ASH LT-UNK] CROSSLINKER (PART B) [DIAMINOPOLYPROPYLENE GLYCOL LT-UNK | MUL | SKI | EYE | MAM] SOLVENT 1 (PART B) [BENZYL ALCOHOL BM-2 | EYE | MAM | SKI | AQU] CURING AGENT 2 (PART B) [1,2-DIAMINOCYCLOHEXANE LT-UNK | SKI | EYE] SOLVENT 2 (PART B) [(POLYETHYL)BENZENES BM-1 | MUL | MAM | SKI | AQU] POLYMER (PART B) [BISPHENOL A EPICHLOROHYDRIN POLYMER LT-P1 MUL | SKI | EYE | AQU]

Number of Greenscreen BM-4/BM3 contents ... 0

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

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. 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."

*Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. For this reason, this score is intentionally omitted from the "Contents highest concern" line above. See HPDC's Special Conditions policy for more information.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 0 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

Pre-checked for LEED v4 Option 1. Pre-checked for LEED v4.1 Option 1. Third Party Verified?

YesNo

PREPARER: Self-Prepared

VERIFIER: VERIFICATION #: SCREENING DATE: 2023-12-26 PUBLISHED DATE: 2024-01-12 EXPIRY DATE: 2026-12-26

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

FILLER (AGGREGATE)	%: 20.0000 - 30.0000	
PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes	MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: 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 TOXNOT) 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:

QUARTZ				ID: 14808-60-7
HAZARD DATA SO	URCE: Pharos Chemical and Material	s Library	HAZARD S	CREENING DATE: 2023-12-29 15:24:55
%: 99.0000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Filler

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen**
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route**
CAN	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)**
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man**
CAN	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources**
CAN	IARC	Group 1 - Agent is Carcinogenic to humans**
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen**
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]**
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]**
CAN	GHS - New Zealand	Carcinogenicity category 1**
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]**
GEN	GHS - Japan	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]**
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]**
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1**
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: "Only a few elements can replace silicon in the quartz lattice (substitutional positions) or are small enough to occupy free spaces in the lattice (interstitial positions). In natural quartz crystals, the most common ones to replace Si are Al, Fe, Ge, and Ti, whereas Li, Na, Ca, Mg and Fe often occupy interstitial positions in the "c-channels"." [Mindat] - Per the Phraos database

POLYMER (PART A) %: 20.0000 - 28.0000

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

^{**}Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

OTHER MATERIAL NOTES: This additive is covered under strict intellectual property rights.

BISPHENOL A EPICHLOROHYDRIN POLYMER

ID: 25068-38-6

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD S	CREENING DATE: 2023-12-29 15:22:53	
%: 90.0000 - 100.0000	GreenScreen: LT-P1	RC: UNK	NANO: No	SUBSTANCE ROLE: Binder
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MUL	German FEA - Substances Haz Waters	ardous to	Class 2 - Hazard t	o Waters
SKI	EU - GHS (H-Statements) Anne	ex 6 Table 3-1	H315 - Causes sk Category 2]	in irritation [Skin corrosion/irritation -
EYE	EU - GHS (H-Statements) Anne	ex 6 Table 3-1	H319 - Causes se damage/eye irritat	rious eye irritation [Serious eye ion - Category 2A]
AQU	EU - GHS (H-Statements) Anne	ex 6 Table 3-1		quatic life with long lasting effects aquatic environment (chronic) -
EYE	GHS - New Zealand		Eye irritation categ	gory 2
SKI	GHS - Australia		H315 - Causes sk Category 2]	in irritation [Skin corrosion/irritation -
EYE	GHS - Australia		H319 - Causes se damage/eye irritat	rious eye irritation [Serious eye ion - Category 2A]
SKI	GHS - Japan		H315 - Causes sk Category 2]	in irritation [Skin corrosion / irritation -
SKI	GHS - New Zealand		Skin sensitisation	category 1
AQU	GHS - New Zealand		Hazardous to the	aquatic environment - chronic category 2
AQU	GHS - Japan		H400 - Very toxic environment (acut	to aquatic life [Hazardous to the aquatic e) - Category 1]
AQU	GHS - Japan			to aquatic life with long lasting effects aquatic environment (chronic) -
AQU	GHS - Australia			puatic life with long lasting effects aquatic environment (chronic) -

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Core Restrictions
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective April 1, 2023
		Red List substances to avoid in Living Building Challenge V4.0 projects

SUBSTANCE NOTES: Bisphenol-A-diglycidylether polymer is manufactured from BPA epoxy resins. Epoxy resins are based on BPA and pupply of the pape of t

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED:

MATERIAL TYPE: Other: Organic

Compound

Yes

RESIDUALS AND IMPURITIES NOTES: 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 TOXNOT) 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: Information concerning this additive is considered as intellectual proprietary.

ADIPONITRILE ID: 111-69-3

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD	SCREENING DATE: 2023-12-29 15:28	
%: 99.0000 - 100.0000	GreenScreen: LT-UNK	RC: PreC	NANO: No	SUBSTANCE ROLE: Curing agent	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
MAM	US EPA - EPCRA Extremely Ha. Substances	zardous	Extremely Hazar	rdous Substances	
SKI	GHS - New Zealand		Skin irritation cat	tegory 2	
EYE	GHS - New Zealand		Eye irritation cate	egory 2	
MAM	GHS - Japan			damage to organs [Specific target toxicity following single exposure -	
MAM	GHS - New Zealand	GHS - New Zealand		Acute inhalation toxicity category 3	
MAM	GHS - Japan		H311 - Toxic in c Category 3]	contact with skin [Acute Toxicity (dermal)	
MAM	GHS - New Zealand		Acute oral toxicit	ty category 3	
MAM	GHS - Japan		H301 - Toxic if so	wallowed [Acute Toxicity (oral) - Category	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
RESTRICTED LIST	Green Science Policy Institute (C	SSPI)	GSPI - Six Class	ses Precautionary List	
			Some Solvents		
RESTRICTED LIST	Green Science Policy Institute (C	SSPI)	GSPI - Six Class	ses Precautionary List	
			Certain Metals		

SUBSTANCE NOTES: Adiponitrile is a complex combination of hydrocarbons produced by the distillation of products from the hydrogenation of adiponitrile. It contains such compounds as 6-aminohexanamide, 6-aminohexanenitrile, bishexamethylenetriamine, 1,2-cyclohexanediamine, and decanediamines. [ChemicalBook]. It's important to note that the actual material used may not necessarily match the exact ingredient listed. This information is intended for screening purposes only, since the given CAS RN does not appear on any HPD Priority Lists.

DILUTENT (PART A)	%: 4.0000 - 8.0000	
PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes	MATERIAL TYPE: Other: Organic Compound

OTHER MATERIAL NOTES: To protect confidentiality, percentages are shown in a range.

HAZARD DATA SOURCE: Pr	naros Chemical and Materials Library	HAZARD SCREENING DATE: 2023-12-29 1	5:24
%: 99.0000 - 100.0000	GreenScreen: LT-P1 RC: None	NANO: No SUBSTANCE ROLE: Diluent	
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS	
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters	
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation Category 2]	า -
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]	
GEN	EU - GHS (H-Statements) Annex 6 Table 3-1	H341 - Suspected of causing genetic defects [Germ mutagenicity - Category 2]	cell
MAM	GHS - Japan	H335 - May cause respiratory irritation [Specific targ organ toxicity - Single exposure - Category 3]	et
SKI	GHS - New Zealand	Skin irritation category 2	
SKI	GHS - Australia	H315 - Causes skin irritation [Skin corrosion/irritation Category 2]	า -
GEN	GHS - Australia	H341 - Suspected of causing genetic defects [Germ mutagenicity - Category 2]	cell
SKI	GHS - New Zealand	Skin sensitisation category 1	
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic cate	gory
AQU	GHS - Australia	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]	
GEN	EU - Annex VI CMRs	Mutagen - Category 2	
GEN	GHS - New Zealand	Germ cell mutagenicity category 2	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION	
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List	
		Some Solvents	
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Subst List (RSL) - Effective July 1, 2022	ances
		Children's Products	

SUBSTANCE NOTES: No residuals or impurities are expected to be present at or above 100 ppm.

FLY ASH (AGGREGATE)

%: 4.0000 - 8.0000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: MATERIAL TYPE: Other: Industrial waste/ by-Yes

product

OTHER MATERIAL NOTES: Fly ash is produced from the combustion of coal in electric utility or industrial boilers. Class F ashes are typically derived from bituminous and anthracite coals and consist primarily of an alumino-silicate glass, with quartz, mullite, and magnetite also present. Class F, or low calcium fly ash has less than 10 percent CaO. [Federal Highway Administration]

FLY ASH ID: 68131-74-8 HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2023-12-29 15:27:17 RC: PreC %: 90.0000 - 99.0000 GreenScreen: LT-UNK NANO: No SUBSTANCE ROLE: Filler HAZARD TYPE LIST NAME AND SOURCE WARNINGS None found No warnings found on HPD Priority Hazard Lists ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION No listings found on Additional Hazard Lists None found

SUBSTANCE NOTES: Fly ash is considered a pre-consumer waste product under the LEED program. Fly ash is produced from the combustion of coal in electric utility or industrial boilers.

CROSSLINKER (PART B) %: 3.0000 - 7.0000

PRODUCT THRESHOLD: 100 RESIDUALS AND IMPURITIES EVALUATION COMPLETED: MATERIAL TYPE: Other: Organic Compound

RESIDUALS AND IMPURITIES NOTES: 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 TOXNOT) 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: The manufacturer maintains rigorous intellectual property rights over this additive.

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD	SCREENING DATE: 2023-12-29 15:31:26	
%: 100.0000	GreenScreen: LT-UNK	RC: UNK	NANO: No	SUBSTANCE ROLE: Curing agent
HAZARD TYPE	LIST NAME AND SOURC	ÈΕ	WARNINGS	
MUL	German FEA - Substance Waters	s Hazardous to	Class 2 - Hazaro	d to Waters
SKI	GHS - New Zealand		Skin corrosion ca	ategory 1C
EYE	GHS - New Zealand		Serious eye dam	nage category 1
SKI	GHS - Australia			severe skin burns and eye damage [Skin on - Category 1A or 1B or 1C]
MAM	GHS - New Zealand		Acute dermal to	xicity category 3
MAM	GHS - New Zealand		Acute oral toxicit	ty category 3
ADDITIONAL LISTING	S LIST NAME AND SOURC	CE C	NOTIFICATION	
None found			١	No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Per the Pharos database, no residuals or impurities are available for this substance.

SOLVENT 1 (PART B)	%: 3.0000 - 6.0000
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PRODUCT THRESHOLD: 100	RESIDUALS AND IMPURITIES EVALUATION COMPLETED:	MATERIAL TYPE: Other: Organic
ppm	Yes	Compound

RESIDUALS AND IMPURITIES NOTES: 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 TOXNOT) 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: None.

BENZYL ALCOHOL ID: 100-51-6

HAZARD DATA SOURCE: Ph	aros Chemical and Materials Library	HAZARD SCREENING DATE: 2023-12-29 15:
%: 98.0000 - 99.0000	GreenScreen: BM-2 RC: None	NANO: No SUBSTANCE ROLE: Solvent
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
EYE	GHS - New Zealand	Eye irritation category 2
EYE	GHS - Australia	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic tox following repeated exposure - Category 1]
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
SKI	GHS - New Zealand	Skin sensitisation category 1
AQU	GHS - Japan	H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List
		Antimicrobials
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List
		Some Solvents
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substance List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substance List (RSL) - Effective July 1, 2022
		Cosmetics & Personal Care Products

SUBSTANCE NOTES: No residuals or impurities are expected to be present at or above 100 ppm.

CURING AGENT 2 (PART B) %: 2.0000 - 5.0000

PRODUCT THRESHOLD: 100 RESIDUALS AND IMPURITIES EVALUATION COMPLETED: MATERIAL TYPE: Other: Organic Compound

RESIDUALS AND IMPURITIES NOTES: 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 TOXNOT) 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.

1,2-DIAMINOCYCLOHEXANE ID: 694-83-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2023-12-29 15:29:18		
%: 100.0000	GreenScreen: LT-UNK	RC: UNK	NANO: No	SUBSTANCE ROLE: Curing agent	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
SKI	GHS - New Zealand		Skin corrosion c	ategory 1C	
EYE	GHS - New Zealand		Serious eye dan	nage category 1	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
None found			1	No listings found on Additional Hazard Lists	

SUBSTANCE NOTES: Per the Pharos database, no residuals or impurities are available for this substance.

SOLVENT 2 (PART B) %: 2.0000 - 5.0000

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

RESIDUALS AND IMPURITIES NOTES: 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 TOXNOT) 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: To protect confidentiality, percentages are shown in a range.

(POLYETHYL)BENZENES ID: 64742-94-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-12-29 15:30:4			
%: 100.0000	GreenScreen: BM-1	RC: UNK	NANO: No	SUBSTANCE ROLE: Solvent	
HAZARD TYPE	LIST NAME AND SOUF	RCE	WARNINGS		
MUL	German FEA - Substand Waters	ces Hazardous to	Class 2 - Hazard	to Waters	
MAM	EU - GHS (H-Statement	s) Annex 6 Table 3-1	H304 - May be fat [Aspiration hazard	tal if swallowed and enters airways d - Category 1]	
MAM	GHS - Japan		-	e respiratory irritation [Specific target ngle exposure - Category 3]	
SKI	GHS - Japan		H315 - Causes sk Category 2]	kin irritation [Skin corrosion / irritation -	
AQU	GHS - Japan		H400 - Very toxic environment (acur	to aquatic life [Hazardous to the aquatic te) - Category 1]	
AQU	GHS - Japan	GHS - Japan		H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]	
ADDITIONAL LISTINGS	LIST NAME AND SOUP	RCE	NOTIFICATION		
RESTRICTED LIST	Green Science Policy In	stitute (GSPI)	GSPI - Six Classe	es Precautionary List	
			Some Solvents		

SUBSTANCE NOTES: TSCA Definition 2008: Obtained from distillation of aromatic streams and consisting of mainly aromatic hydrocarbons with carbon numbers of C9 through C16 and boiling range of 165 deg C to 290 deg C.

POLYMER (PART B)

%: 1.0000 - 3.0000

OTHER MATERIAL NOTES:

BISPHENOL A EPICHLOROHYDRIN POLYMER ID: 25068-38-					
HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2023-12-29 15:23:30		
%: 90.0000 - 100.0000	GreenScreen: LT-P1	RC: UNK	NANO: No	SUBSTANCE ROLE: Binder	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
MUL	German FEA - Substances H Waters	azardous to	Class 2 - Hazard t	to Waters	
SKI	EU - GHS (H-Statements) An	EU - GHS (H-Statements) Annex 6 Table 3-1		H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]	
EYE	EU - GHS (H-Statements) An	EU - GHS (H-Statements) Annex 6 Table 3-1		H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]	
AQU	EU - GHS (H-Statements) An	EU - GHS (H-Statements) Annex 6 Table 3-1		H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]	
EYE	GHS - New Zealand	GHS - New Zealand		Eye irritation category 2	
SKI	GHS - Australia		H315 - Causes sk Category 2]	in irritation [Skin corrosion/irritation -	
EYE	GHS - Australia			erious eye irritation [Serious eye tion - Category 2A]	
SKI	GHS - Japan	GHS - Japan		H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]	
SKI	GHS - New Zealand	GHS - New Zealand		Skin sensitisation category 1	
AQU	GHS - New Zealand	GHS - New Zealand		Hazardous to the aquatic environment - chronic category 2	
AQU	GHS - Japan		H400 - Very toxic environment (acut	to aquatic life [Hazardous to the aquatic te) - Category 1]	
AQU	GHS - Japan		•	to aquatic life with long lasting effects aquatic environment (chronic) -	
AQU	GHS - Australia			quatic life with long lasting effects aquatic environment (chronic) -	

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Core Restrictions
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective April 1, 2023
		Red List substances to avoid in Living Building Challenge V4.0 projects

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.

EXPIRY DATE:

VOC EMISSIONS

CDPH Standard Method - Not tested

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2024-01-05 00:00:00

CERTIFIER OR LAB: None

APPLICABLE FACILITIES: 3811 Curtis Avenue, Baltimore,

MD, USA.

CERTIFICATE URL:

VOC CONTENT

CERTIFICATION AND COMPLIANCE NOTES:

MAS Certified Green - VOC Content

CERTIFYING PARTY: Self-declared ISSUE DATE: 2024-01-05 00:00:00

CERTIFIER OR LAB:

APPLICABLE FACILITIES: 3811 Curtis Avenue, Baltimore,

EXPIRY DATE:

kaufmanproducts

MD, USA.

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: This is not MAS Green Certification. The VOC content is self-reported by using primary information i.e.

SDS. VOC content= 0 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

APPLICATIONS:

Pile Jacketing applications

Underwater Grouting

Pumping applications

Tremie Grouting

Piers

Dams

Sea Walls

Bridges

Marine Structures

Multipurpose Epoxy Grout

Proportioning/Mixing:

The volumetric ratio of K Pro UC Epoxy Grout is 2:1 (A:B) for the epoxy to hardener. To mix, proportion two parts A and 1 part B into a clean pail. Mix thoroughly for 2-3 minutes with a paddle on a low speed (400-600 rpm) drill until blend is a uniform color.

Packaging/Yield:

High Flow Epoxy Grout: One 3-gallon unit of epoxy and hardener when mixed with two bags of aggregate will yield 1.03 ft3 of flowable epoxy grout.

Storage Conditions:

Store dry at 40-95°F. Condition material to 65-85°F before using.

Mix Ratio: 2:1 by Volume

Gel Time (ASTM C-881): 50-60 Minutes Viscosity (ASTM D-2556): 400-600 cps.

Shelf Life: 2 Years

MANUFACTURER INFORMATION

MANUFACTURER: Kaufman Products, Inc.

ADDRESS: 3811 Curtis Avenue Baltimore, Maryland 21226 COUNTRY: United States WEBSITE: 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 HPD and

