

HPD UNIQUE IDENTIFIER: 1714936832

CLASSIFICATION: 03 30 00 Cast-in-Place Concrete

PRODUCT DESCRIPTION: ThinFilm represents a line of high quality, concrete curing compounds specially designed for both highways and commercial construction. These curing compounds form a thin membrane when sprayed or brushed on freshly finished concrete surfaces. Kaufman Products now further develops these products by emulsifying them into a low VOC formula for a safer atmosphere.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Table with 4 columns: Inventory Reporting Format, Threshold Level, Residuals/Impurities Evaluation, and Explanation(s) provided for Residuals/Impurities? Each column contains radio button options and descriptive text.

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
DILUTENT [ WATER BM-4 ] RESIN [ POLY(ALPHA-METHYLSTYRENE) LT-UNK ] SOLVENT 2 [ AROMATIC NAPHTHA, TYPE 1 LT-1 ] END | CAN | MUL | GEN | MAM | SKI | EYE ] PIGMENT [ TITANIUM DIOXIDE BM-1 ] CAN | END | MAM ] SOLVENT 3 [ MORPHOLINE LT-UNK ] SKI | MAM | EYE | AQU ] SURFACTANT [ ACIDS, TALL OIL LT-UNK ] SOLVENT [ METHYL ALCOHOL BM-1 ] END | MUL | DEV | REP | PHY | MAM | EYE ] ADDITIVE [ BARIUM SULFATE BM-2 ] CAN | MAM ]

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... BM-1, LT-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.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): <251 Regulatory (g/l): 350
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.

Summary table with 3 columns: Third Party Verified? (Yes/No), PREPARER: Self-Prepared, VERIFIER: VERIFICATION #: SCREENING DATE: 2024-05-24, PUBLISHED DATE: 2024-05-24, EXPIRY DATE: 2027-05-24

## 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](http://www.hpd-collaborative.org/hpd-2-3-standard)

### DILUTENT

#: 40.0000 - 60.0000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Other: Water

RESIDUALS AND IMPURITIES NOTES: No impurities are registered for this substance per the Pharos database.

OTHER MATERIAL NOTES:

### WATER

ID: 7732-18-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2024-05-24 4:05:10

#: 100.0000

GreenScreen: BM-4

RC: UNK

NANO: No

SUBSTANCE ROLE: Diluent

HAZARD TYPE

LIST NAME AND SOURCE

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS

LIST NAME AND SOURCE

NOTIFICATION

EXEMPT

European Union / European Commission (EU EC)

EU - REACH Exemptions

Exempted from REACH Annex IV listing due to intrinsic safety

SUBSTANCE NOTES: No impurities are registered for this substance per the Pharos database.

### RESIN

#: 20.0000 - 30.0000

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

RESIDUALS AND IMPURITIES NOTES: Residuals/impurities were screened using Quartz or Pharos databases. The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm. For this product, no actual material has been tested. Therefore, Residuals and impurities listed in the HPD are for information purposes only and are not 100% guaranteed to be present in the actual building material.

OTHER MATERIAL NOTES: The manufacturer maintains rigorous intellectual property rights over this additive.

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2024-05-24 4:05:11**%: **90.0000 - 100.0000**GreenScreen: **LT-UNK**RC: **UNK**NANO: **No**SUBSTANCE ROLE: **Coating**

| HAZARD TYPE         | LIST NAME AND SOURCE | WARNINGS                                       |
|---------------------|----------------------|--|
| None found          |                      | No warnings found on HPD Priority Hazard Lists |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                   |
| None found          |                      | No listings found on Additional Hazard Lists   |

SUBSTANCE NOTES: The manufacturer did not disclose the CAS RN for this substance due to proprietary reasons. The data gaps were addressed using information from the Quartz database for common building materials and the Pharos database. 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.

**SOLVENT 2**%: **6.0000 - 12.0000**

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals/impurities were screened using Quartz or Pharos databases. The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm. For this product, no actual material has been tested. Therefore, Residuals and impurities listed in the HPD are for information purposes only and are not 100% guaranteed to be present in the actual building material.

OTHER MATERIAL NOTES: Petroleum derived product.

**AROMATIC NAPHTHA, TYPE 1**ID: **64742-95-6**HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2024-05-24 4:05:11**%: **100.0000**GreenScreen: **LT-1**RC: **UNK**NANO: **No**SUBSTANCE ROLE: **Solvent**

| HAZARD TYPE         | LIST NAME AND SOURCE                                    | WARNINGS  |
|---------------------|---|---|
| END                 | TEDX - Potential Endocrine Disruptors                   | Potential Endocrine Disruptor   |
| CAN                 | 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 Hazardous to Waters             | Class 3 - Severe Hazard to Waters   |
| MUL                 | German FEA - Substances Hazardous to Waters             | Class 2 - Hazard to Waters  |
| GEN                 | EU - Annex VI CMRs                                      | Mutagen - Category 1B   |
| CAN                 | GHS - Australia   | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]   |
| GEN                 | GHS - Australia   | H340 - May cause genetic defects [Germ cell mutagenicity - Category 1A or 1B]   |
| CAN                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]   |
| MAM                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]  |
| GEN                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H340 - May cause genetic defects [Germ cell mutagenicity - Category 1A or 1B]   |
| SKI                 | GHS - Australia   | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]  |
| EYE                 | GHS - Australia   | H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]  |
| MAM                 | GHS - Australia   | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1] |
| CAN                 | EU - REACH Annex XVII CMRs                              | Carcinogens: Category 1B  |
| GEN                 | EU - REACH Annex XVII CMRs                              | Germ cell mutagens: Category 1B   |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION  |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br>Antimicrobials   |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br>Some Solvents  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Children's Products                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Formulated Consumer Products             |

SUBSTANCE NOTES: "This product has the following approximate composition: Trimethylbenzenes 6%; Diethylbenzenes 12%; Indane 6%; Dimethylethyl benzenes: 16%; Tetramethyl benzene, Dimethyl styrene, Tetramethyl benzene, and Divinyl benzene: 10%; Methyl indance: 8%; Methyl indenenes 7%; Naphthalene: 13%." (IUCLID) - Per Pharos database.

**PIGMENT**

**%: 2.0000 - 7.0000**

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

RESIDUALS AND IMPURITIES NOTES: Residuals/impurities were screened using Quartz or Pharos databases. The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm. For this product, no actual material has been tested. Therefore, Residuals and impurities listed in the HPD are for information purposes only and are not 100% guaranteed to be present in the actual building material.

OTHER MATERIAL NOTES:

**TITANIUM DIOXIDE**

ID: **13463-67-7**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**      HAZARD SCREENING DATE: **2024-05-24 4:05:11**

%: **99.0000**      GreenScreen: **BM-1**      RC: **UNK**      NANO: **Unknown**      SUBSTANCE ROLE: **Pigment**

| 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         | IARC                                      | Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources  |
| CAN         | MAK                                       | Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value  |
| END         | TEDX - Potential Endocrine Disruptors     | Potential Endocrine Disruptor   |
| CAN         | MAK                                       | Carcinogen Group 4 - Non-genotoxic carcinogen with 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 [Carcinogenicity - Category 2]   |
| CAN         | GHS - Japan                               | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]   |
| MAM         | GHS - Japan                               | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION  |
|---------------------|---|---|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP11) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP11) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Formulated Consumer Products       |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP11) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Cosmetics & Personal Care Products |
| POSITIVE LIST       | US Environmental Protection Agency (US EPA)             | US EPA - DfE Safer Chemicals Ingredients list (SCIL)<br><br>Colorants - Green Circle (Verified Low Concern)                           |

SUBSTANCE NOTES: Natural rutile, anatase and brookite contain impurities of up to ≈2% that include iron, chromium, vanadium, aluminium, niobium, tantalum, hafnium and zirconium. (IARC)

### SOLVENT 3

%: 1.0000 - 5.0000

PRODUCT THRESHOLD: 100 ppm      RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes      MATERIAL TYPE: Other: Organic compound

RESIDUALS AND IMPURITIES NOTES: Residuals/impurities were screened using Quartz or Pharos databases. The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm. For this product, no actual material has been tested. Therefore, Residuals and impurities listed in the HPD are for information purposes only and are not 100% guaranteed to be present in the actual building material.

OTHER MATERIAL NOTES:

### MORPHOLINE

ID: 110-91-8

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2024-05-24 4:05:12**

%: **100.0000**      GreenScreen: **LT-UNK**      RC: **UNK**      NANO: **No**      SUBSTANCE ROLE: **Solvent**

| HAZARD TYPE | LIST NAME AND SOURCE                      | WARNINGS  |
|-------------|---|---|
| SKI         | EU - GHS (H-Statements) Annex 6 Table 3-1 | H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]  |
| MAM         | GHS - Japan                               | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| MAM         | GHS - New Zealand                         | Specific target organ toxicity - repeated exposure category 1   |
| MAM         | GHS - Japan                               | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]  |
| EYE         | GHS - New Zealand                         | Serious eye damage category 1   |
| MAM         | GHS - Japan                               | H331 - Toxic if inhaled [Acute toxicity (inhalation: vapor) - Category 3]   |
| EYE         | GHS - Japan                               | H318 - Causes serious eye damage [Serious eye damage / eye irritation - Category 1]   |
| SKI         | GHS - Japan                               | H314 - Causes severe skin burns and eye damage [Skin corrosion / irritation - Category 1]   |
| SKI         | GHS - Australia                           | H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]  |
| MAM         | GHS - New Zealand                         | Acute inhalation toxicity category 3  |
| AQU         | GHS - New Zealand                         | Hazardous to the aquatic environment - chronic category 3   |
| MAM         | GHS - Japan                               | H311 - Toxic in contact with skin [Acute Toxicity (dermal) - Category 3]  |
| SKI         | GHS - Malaysia                            | H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]  |
| EYE         | GHS - Malaysia                            | H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]   |
| MAM         | GHS - New Zealand                         | Acute dermal toxicity category 3  |
| MAM         | GHS - New Zealand                         | Acute oral toxicity category 3  |
| SKI         | GHS - New Zealand                         | Skin corrosion category 1A  |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION  |
|---------------------|---|---|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br><br>Some Solvents  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Cosmetics & Personal Care Products |

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

**SURFACTANT**

%: 1.0000 - 4.0000

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

RESIDUALS AND IMPURITIES NOTES: Residuals/impurities were screened using Quartz or Pharos databases. The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm. For this product, no actual material has been tested. Therefore, Residuals and impurities listed in the HPD are for information purposes only and are not 100% guaranteed to be present in the actual building material.

OTHER MATERIAL NOTES:

**ACIDS, TALL OIL**

ID: 61790-12-3

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**    HAZARD SCREENING DATE: **2024-05-24 4:05:11**%: **100.0000**    GreenScreen: **LT-UNK**    RC: **UNK**    NANO: **No**    SUBSTANCE ROLE: **Surfactant**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS                                       |
|-------------|----------------------|--|
| None found  |                      | No warnings found on HPD Priority Hazard Lists |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                 |
|---------------------|----------------------|--|
| None found          |                      | No listings found on Additional Hazard Lists |

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

**SOLVENT**

%: 1.0000 - 3.0000

PRODUCT THRESHOLD: 100 ppm    RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes    MATERIAL TYPE: Other: Organic compound

RESIDUALS AND IMPURITIES NOTES: Residuals/impurities were screened using Quartz or Pharos databases. The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm. For this product, no actual material has been tested. Therefore, Residuals and impurities listed in the HPD are for information purposes only and are not 100% guaranteed to be present in the actual building material.

OTHER MATERIAL NOTES:

**METHYL ALCOHOL**

ID: 67-56-1

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**    HAZARD SCREENING DATE: **2024-05-24 4:05:11**%: **100.0000**    GreenScreen: **BM-1**    RC: **UNK**    NANO: **No**    SUBSTANCE ROLE: **Solvent**

| HAZARD TYPE | LIST NAME AND SOURCE                             | WARNINGS  |
|-------------|--|---|
| END         | TEDX - Potential Endocrine Disruptors            | Potential Endocrine Disruptor   |
| MUL         | German FEA - Substances Hazardous to Waters      | Class 3 - Severe Hazard to Waters   |
| DEV         | CA EPA - Prop 65                                 | Developmental toxicity  |
| DEV         | US NIH - Reproductive & Developmental Monographs | Clear Evidence of Adverse Effects - Developmental Toxicity                            |
| REP         | GHS - Japan                                      | H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B] |
| PHY         | EU - GHS (H-Statements) Annex 6 Table 3-1        | H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]            |



|     |   |   |
|-----|---|---|
| MAM | EU - GHS (H-Statements) Annex 6 Table 3-1 | H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]  |
| MAM | EU - GHS (H-Statements) Annex 6 Table 3-1 | H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]  |
| MAM | EU - GHS (H-Statements) Annex 6 Table 3-1 | H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]  |
| MAM | EU - GHS (H-Statements) Annex 6 Table 3-1 | H370 - Causes damage to organs [Specific target organ toxicity - single exposure - Category 1]  |
| EYE | GHS - New Zealand                         | Eye irritation category 2   |
| MAM | GHS - Japan                               | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| MAM | GHS - New Zealand                         | Specific target organ toxicity - repeated exposure category 1   |
| MAM | GHS - Japan                               | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]  |
| MAM | GHS - New Zealand                         | Acute inhalation toxicity category 3  |
| REP | GHS - New Zealand                         | Reproductive toxicity category 2  |
| EYE | GHS - Korea                               | H319 - Causes serious eye irritation [Serious eye damage/irritation - Category 2]   |
| PHY | GHS - Korea                               | H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]  |
| PHY | GHS - New Zealand                         | Flammable liquids category 2  |
| PHY | GHS - Japan                               | H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]  |
| PHY | GHS - Malaysia                            | H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]  |
| PHY | GHS - Australia                           | H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]  |
| MAM | GHS - Korea                               | H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]  |
| MAM | GHS - Korea                               | H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]  |
| MAM | GHS - Malaysia                            | H300 - Fatal if swallowed [Acute toxicity (oral) - Category 1 or 2]   |
| MAM | GHS - Malaysia                            | H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]  |
| MAM | GHS - Malaysia                            | H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]  |
| MAM | GHS - Australia                           | H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]  |
| MAM | GHS - Australia                           | H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]  |
| MAM | GHS - Australia                           | H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]  |

|                     |  |   |
|---------------------|--|---|
| MAM                 | GHS - New Zealand  | Acute dermal toxicity category 3  |
| MAM                 | GHS - New Zealand  | Acute oral toxicity category 3  |
| MAM                 | GHS - Korea  | H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]  |
| MAM                 | GHS - Korea  | H370 - Causes damage to organs [Specific target organ toxicity - Single exposure - Category 1]                                    |
| MAM                 | GHS - Malaysia   | H370 - Causes damage to organs [Specific target organ toxicity - single exposure - Category 1]                                    |
| MAM                 | GHS - Australia  | H370 - Causes damage to organs [Specific target organ toxicity - single exposure - Category 1]                                    |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION  |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                    | GSPI - Six Classes Precautionary List<br>Some Solvents  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Formulated Consumer Products       |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Cosmetics & Personal Care Products |

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

## ADDITIVE

%: 1.0000 - 3.0000

|                            |  |  |
|----------------------------|--|--|
| PRODUCT THRESHOLD: 100 ppm | RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes | MATERIAL TYPE: Geologically Derived Material |
|----------------------------|--|--|

RESIDUALS AND IMPURITIES NOTES: Residuals/impurities were screened using Quartz or Pharos databases. The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm. For this product, no actual material has been tested. Therefore, Residuals and impurities listed in the HPD are for information purposes only and are not 100% guaranteed to be present in the actual building material.

OTHER MATERIAL NOTES:

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2024-05-24 4:05:11**

%: **99.0000 - 100.0000**      GreenScreen: **BM-2**      RC: **UNK**      NANO: **No**      SUBSTANCE ROLE: **Processing regulator**

| HAZARD TYPE         | LIST NAME AND SOURCE                                    | WARNINGS  |
|---------------------|---|---|
| CAN                 | MAK   | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels  |
| MAM                 | GHS - Japan   | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| 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<br><br>Biological and Environmentally Released Materials      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                                    |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Cosmetics & Personal Care Products                     |

SUBSTANCE NOTES: No residual/impurities are expected to be present 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   | ISSUE DATE: 2024-05-24 00:00:00   | CERTIFIER OR LAB: None |
| APPLICABLE FACILITIES: This is not a facility based declaration.  | EXPIRY DATE:                      |                        |
| CERTIFICATE URL:  |                                   |                        |
| CERTIFICATION AND COMPLIANCE NOTES: This product currently does not have a CDPH test certificate for VOC emissions. |                                   |                        |

| VOC CONTENT   | MAS Certified Green - VOC Content |                   |
|---|-----------------------------------|-------------------|
| CERTIFYING PARTY: Self-declared   | ISSUE DATE: 2024-05-24 00:00:00   | CERTIFIER OR LAB: |
| APPLICABLE FACILITIES: All  | EXPIRY DATE:                      | Kaufmanproducts   |
| CERTIFICATE URL:  |                                   |                   |
| CERTIFICATION AND COMPLIANCE NOTES: This is not a MAS Green Certified. The VOC content is reported using Safety Data Sheet (SDS), VOC content <251 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:

All ThinFilm products may be used on curbs and gutters, sidewalks, driveways, bridge decks, super structures, and runways.

### PRECAUTIONS:

Resin based ThinFilm products are freeze/thaw stable. If allowed to freeze, thaw thoroughly before use. If using in the wintertime, bring product inside a day before use to thaw out.

### PACKAGING:

- 5 gallon pail
- 55 gallon drum
- 275 gallon tote

**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**

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

**GreenScreen (GS)**

|   |  |
|---|--|
| <b>BM-4</b> Benchmark 4 (prefer-safer chemical)                     | <b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1) |
| <b>BM-3</b> Benchmark 3 (use but still opportunity for improvement) | <b>LT-1</b> List Translator 1 (Likely Benchmark-1)             |
| <b>BM-2</b> Benchmark 2 (use but search for safer substitutes)      | <b>LT-UNK</b> List Translator Benchmark Unknown                |
| <b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)          | <b>NoGS</b> No GreenScreen.                                    |
| <b>BM-U</b> 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](http://www.greenscreenchemicals.org), and Best Practices for Hazard Screening on the HPDC website ([hpd-collaborative.org](http://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*

