

HPD UNIQUE IDENTIFIER: 243359232000

CLASSIFICATION: 09 67 23 Resinous Flooring

PRODUCT DESCRIPTION: KEY #780 is a semi-rigid epoxy joint filler used to protect saw cut joints in concrete slabs or in repair of existing damaged joints. KEY #780 absorbs the impact and shock of heavy loads and steel wheeled traffic, preventing erosion of control joint edges.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Table with 4 columns: Inventory Reporting Format, Threshold Level, Residuals/Impurities Evaluation, and screening options (Characterized, Screened, Identified).

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®.

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ...
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This HPD was generated with basic inventory information.

PRODUCT | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE
KEY #780 EPOXY JOINT FILLER [ BISPHENOL A EPICHLOROHYDRIN POLYMER ... ]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): < 50 g/l, compliant
Regulatory (g/l): < 50 g/l, compliant
to low VOC Rule 1113 in all 50 states
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 V1.2 (Section 01350/CHPS) - Classroom & Office scenario
VOC content: EPA Method 24 - Volatile Matter Content (EPA 24)

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?, PREPARER: Self-Prepared, SCREENING DATE: 2024-06-11

## 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)

### KEY #780 EPOXY JOINT FILLER

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: The product is estimated to have no residuals/impurities over 1000 ppm based on raw material supplier information.

OTHER PRODUCT NOTES:

### BISPHENOL A EPICHLOROHYDRIN POLYMER

ID: 25068-38-6

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

HAZARD SCREENING DATE: **2024-06-11 7:33:14**

%: **27.0000 - 36.0000**      GreenScreen: **LT-P1**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Binder**

| HAZARD TYPE | LIST NAME AND SOURCE                        | WARNINGS  |
|-------------|---|---|
| MUL         | German FEA - Substances Hazardous to Waters | Class 3 - Severe Hazard to Waters   |
| SKI         | EU - GHS (H-Statements) Annex 6 Table 3-1   | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]  |
| EYE         | 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) 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                           | Eye irritation category 2   |
| 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]                                    |
| SKI         | GHS - Japan                                 | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]  |
| 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 to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]                             |
| AQU         | GHS - Japan                                 | H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1] |
| AQU         | GHS - Australia                             | H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]      |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                   | NOTIFICATION   |
|---------------------|--|--|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPH) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Core Restrictions   |
| RESTRICTED LIST     | International Living Future Institute (ILFI)           | Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective April 1, 2024<br><br>Red List substances to avoid in Living Building Challenge V4.0 projects |

SUBSTANCE NOTES:

#### 4-NONYLPHENOL (BRANCHED)

ID: 84852-15-3

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-06-11 7:33:14**

%: **19.0000 - 26.0000** GreenScreen: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Plasticizer**

| HAZARD TYPE | LIST NAME AND SOURCE                             | WARNINGS  |
|-------------|--|---|
| END         | TEDX - Potential Endocrine Disruptors            | Potential Endocrine Disruptor   |
| END         | OSPAR - Priority PBTs & EDs & equivalent concern | Endocrine Disruptor - Chemical for Priority Action  |
| END         | ChemSec - SIN List                               | Endocrine Disruption  |
| MUL         | German FEA - Substances Hazardous to Waters      | Class 2 - Hazard to Waters  |
| PBT         | OSPAR - Priority PBTs & EDs & equivalent concern | PBT - Substance of Possible Concern   |
| 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]                      |
| AQU         | EU - GHS (H-Statements) Annex 6 Table 3-1        | H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]                             |
| AQU         | EU - GHS (H-Statements) Annex 6 Table 3-1        | H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1] |
| REP         | EU - GHS (H-Statements) Annex 6 Table 3-1        | H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child [Reproductive toxicity - Category 2]     |
| MAM         | GHS - Japan                                      | H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]                   |
| EYE         | GHS - New Zealand                                | Serious eye damage 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]                      |
| AQU         | GHS - New Zealand                                | Hazardous to the aquatic environment - acute category 1   |
| AQU         | GHS - Japan                                      | H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]                             |

|                     |  |  |
|---------------------|--|--|
| AQU                 | GHS - Japan  | H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]  |
| AQU                 | GHS - Australia  | H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]  |
| AQU                 | GHS - New Zealand  | Hazardous to the aquatic environment - chronic category 1  |
| AQU                 | GHS - Korea  | H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]  |
| AQU                 | GHS - Korea  | H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]  |
| REP                 | GHS - Korea  | H361 - Suspected of damaging fertility or the unborn child [Reproductive toxicity - Category 2]  |
| SKI                 | GHS - Korea  | H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1]  |
| SKI                 | GHS - New Zealand  | Skin corrosion category 1B   |
| REP                 | GHS - Japan  | H361 - Suspected of damaging fertility or the unborn child [Toxic to reproduction - Category 2]  |
| REP                 | EU - Annex VI CMRs                                       | Reproductive Toxicity - Category 2   |
| REP                 | GHS - Australia  | H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child [Reproductive toxicity - Category 2]  |
| END                 | EU - SVHC List   | Equivalent Concern - Candidate List: endocrine disrupting properties cause probable serious effects to the environment or human health                                     |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION   |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Core Restrictions   |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products   |
| RESTRICTED LIST     | International Living Future Institute (ILFI)             | Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective April 1, 2024<br><br>Red List substances to avoid in Living Building Challenge V4.0 projects |

SUBSTANCE NOTES:

**P-TERT-BUTYLPHENOL**

ID: **98-54-4**

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

HAZARD SCREENING DATE: **2024-06-11 7:33:14**

%: **7.0000 - 12.0000**

GreenScreen: **LT-1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Plasticizer**

| HAZARD TYPE | LIST NAME AND SOURCE                             | WARNINGS  |
|-------------|--|---|
| END         | TEDX - Potential Endocrine Disruptors            | Potential Endocrine Disruptor   |
| END         | OSPAR - Priority PBTs & EDs & equivalent concern | Endocrine Disruptor - Substance of Possible Concern   |
| END         | ChemSec - SIN List                               | Endocrine Disruption  |
| SKI         | MAK  | Sensitizing Substance Sh - Danger of skin sensitization   |
| MUL         | German FEA - Substances Hazardous to Waters      | Class 2 - Hazard to Waters  |
| END         | EU - Priority Endocrine Disruptors               | Category 2 - In vitro evidence of biological activity related to Endocrine Disruption                                     |
| SKI         | EU - GHS (H-Statements) Annex 6 Table 3-1        | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]  |
| AQU         | EU - GHS (H-Statements) Annex 6 Table 3-1        | H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1] |
| EYE         | EU - GHS (H-Statements) Annex 6 Table 3-1        | H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]   |
| REP         | EU - GHS (H-Statements) Annex 6 Table 3-1        | H361f - Suspected of damaging fertility [Reproductive toxicity - Category 2]  |
| MAM         | GHS - Japan                                      | H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]                   |
| SKI         | GHS - New Zealand                                | Skin irritation category 2  |
| EYE         | GHS - New Zealand                                | Eye irritation category 2   |
| SKI         | GHS - Australia                                  | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]  |
| EYE         | GHS - Japan                                      | H318 - Causes serious eye damage [Serious eye damage / eye irritation - Category 1]                                       |
| SKI         | GHS - Japan                                      | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]  |
| AQU         | GHS - Australia                                  | H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1] |
| REP         | GHS - Japan                                      | H361 - Suspected of damaging fertility or the unborn child [Toxic to reproduction - Category 2]                           |
| REP         | EU - Annex VI CMRs                               | Reproductive Toxicity - Category 2  |
| AQU         | GHS - Japan                                      | H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]                                  |
| AQU         | GHS - Japan                                      | H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]      |
| EYE         | GHS - Australia                                  | H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]   |
| REP         | GHS - Australia                                  | H361f - Suspected of damaging fertility [Reproductive toxicity - Category 2]  |

|                     |   |  |
|---------------------|---|--|
| END                 | EU - SVHC List  | Equivalent Concern - Candidate List: endocrine disrupting properties cause probable serious effects to the environment or human health |
| 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>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:    |   |  |

### LIMESTONE

ID: 1317-65-3

|  |                            |  |                 |                               |
|--|----------------------------|--|-----------------|-------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            | HAZARD SCREENING DATE: <b>2024-06-11 7:33:15</b> |                 |                               |
| %: <b>7.0000 - 12.0000</b>                                       | GreenScreen: <b>BM-3dg</b> | RC: <b>None</b>                                  | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Filler</b> |
| 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:   |                            |  |                 |                               |

### TALC

ID: 14807-96-6

|  |                          |   |                 |                               |
|--|--------------------------|---|-----------------|-------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          | HAZARD SCREENING DATE: <b>2024-06-11 7:33:15</b>  |                 |                               |
| %: <b>3.0000 - 9.0000</b>  | GreenScreen: <b>BM-1</b> | RC: <b>None</b>   | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Filler</b> |
| HAZARD TYPE  | LIST NAME AND SOURCE     | WARNINGS  |                 |                               |
| CAN  | MAK                      | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification  |                 |                               |
| CAN  | IARC                     | Group 2b - Possibly carcinogenic to humans  |                 |                               |
| 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 - Japan              | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]  |                 |                               |
| ADDITIONAL LISTINGS  | LIST NAME AND SOURCE     | NOTIFICATION  |                 |                               |
| None found   |                          | No listings found on Additional Hazard Lists  |                 |                               |

SUBSTANCE NOTES:

**FUMED SILICA, CRYSTALLINE-FREE, NANO, LACKING  
HYDROPHOBIC SURFACE TREATMENT**

ID: 112945-52-5

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

HAZARD SCREENING DATE: **2024-06-11 7:33:14**

%: **0.6000 - 6.0000** GreenScreen: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Viscosity modifier**

| 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:

**1,3-BENZENEDIMETHANAMINE**

ID: 1477-55-0

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

HAZARD SCREENING DATE: **2024-06-11 7:33:14**

%: **0.5000 - 5.0000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Curing agent**

| HAZARD TYPE         | LIST NAME AND SOURCE                        | WARNINGS  |
|---------------------|---|---|
| SKI                 | MAK   | Sensitizing Substance Sh - Danger of skin sensitization   |
| MUL                 | German FEA - Substances Hazardous to Waters | Class 3 - Severe Hazard to Waters   |
| 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 - Japan                                 | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]  |
| 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]   |
| MAM                 | GHS - Japan                                 | H331 - Toxic if inhaled [Acute toxicity (inhalation: dust, mist) - Category 3]  |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                        | NOTIFICATION  |
| None found          |   | No listings found on Additional Hazard Lists  |

SUBSTANCE NOTES:

**1,6-HEXANEDIAMINE, C,C,C-TRIMETHYL-**

ID: 25620-58-0

%: **0.5000 - 5.0000**      GreenScreen: **LT-P1**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Curing agent**

| HAZARD TYPE         | LIST NAME AND SOURCE                        | WARNINGS                                     |
|---------------------|---|--|
| MUL                 | German FEA - Substances Hazardous to Waters | Class 3 - Severe Hazard to Waters            |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                        | NOTIFICATION                                 |
| None found          |   | No listings found on Additional Hazard Lists |
| SUBSTANCE NOTES:    |   |  |

**BENZYL ALCOHOL**ID: **100-51-6**

%: **0.0000 - 3.0000**      GreenScreen: **BM-2**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Plasticizer**

| 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 toxicity 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<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 (C2CPH) | 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 (C2CPH) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br>Cosmetics & Personal Care Products                         |



SUBSTANCE NOTES:

**TITANIUM DIOXIDE**

ID: 13463-67-7

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

HAZARD SCREENING DATE: **2024-06-11 7:33:15**

#: **0.6000 - 3.0000**      GreenScreen: **BM-1**      RC: **None**      NANO: **No**      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 (C2CP II) | 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 (C2CP II) | 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 (C2CP II) | 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:

**CARBON BLACK**

ID: 1333-86-4

%: **0.6000 - 3.0000**      GreenScreen: **BM-1**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Pigment**

| HAZARD TYPE         | LIST NAME AND SOURCE              | WARNINGS  |
|---------------------|-----------------------------------|---|
| CAN                 | US CDC - Occupational Carcinogens | Occupational Carcinogen   |
| CAN                 | MAK                               | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification  |
| CAN                 | CA EPA - Prop 65                  | Carcinogen - specific to chemical form or exposure route  |
| CAN                 | IARC                              | Group 2b - Possibly carcinogenic to humans  |
| EYE                 | GHS - New Zealand                 | Eye irritation category 2   |
| CAN                 | GHS - New Zealand                 | 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] |
| PHY                 | GHS - Japan                       | H251 - Self-heating;; may catch fire [Self-heating substances and mixtures - Category 1]  |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE              | NOTIFICATION  |
| None found          |                                   | No listings found on Additional Hazard Lists  |

SUBSTANCE NOTES:

**FERRIC OXIDE, YELLOW**ID: **51274-00-1**HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2024-06-11 7:33:16**

%: **0.6000 - 3.0000**      GreenScreen: **LT-UNK**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Pigment**

| 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:

**FERRIC OXIDE**ID: **1309-37-1**HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2024-06-11 7:33:16**

%: **0.6000 - 3.0000**      GreenScreen: **BM-1**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Pigment**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS  |
|-------------|----------------------|---|
| CAN         | MAK                  | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification  |
| 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 - Japan          | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]  |

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

SUBSTANCE NOTES:

## 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.*

| <b>VOC EMISSIONS</b>   | <b>CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom &amp; Office scenario</b> |                                 |
|--|---|---------------------------------|
| CERTIFYING PARTY: Self-declared  | ISSUE DATE: 2020-08-06 00:00:00   | CERTIFIER OR LAB: Key Resin Lab |
| APPLICABLE FACILITIES: ALL   | EXPIRY DATE:  |                                 |
| CERTIFICATE URL:   |   |                                 |
| CERTIFICATION AND COMPLIANCE NOTES: Small Environment Chamber VOC Emissions Test, ASTM D5116 |   |                                 |

| <b>VOC CONTENT</b>  | <b>EPA Method 24 - Volatile Matter Content (EPA 24)</b> |                                 |
|---|---|---------------------------------|
| CERTIFYING PARTY: Self-declared   | ISSUE DATE: 2020-07-31 00:00:00                         | CERTIFIER OR LAB: Key Resin Lab |
| APPLICABLE FACILITIES: ALL  | EXPIRY DATE:  |                                 |
| CERTIFICATE URL:  |   |                                 |
| CERTIFICATION AND COMPLIANCE NOTES: EPA Method 24 - Volatile Organic Compound (VOC ) Content, per ASTM D 2369 |   |                                 |

## 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

The product is estimated to have no residuals / impurities over 1000 ppm based on raw material supplier information.

**MANUFACTURER INFORMATION**

MANUFACTURER: **Key Resin Company**  
 ADDRESS: **4050 Clough Woods Drive**  
**Batavia, OHIO 45103**  
 COUNTRY: **United States**

WEBSITE: **www.keyresin.com**  
 CONTACT NAME: **Travis Barkey**  
 TITLE: **Technical Director**  
 PHONE: **15139434225**  
 EMAIL: **tbarkey@keyresin.com**

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

**KEY**

**Hazard Types**

|                                       |   |  |
|---------------------------------------|---|--|
| <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*

