

HPD UNIQUE IDENTIFIER: 875204608

HPD UNIQUE PRODUCT ID: Not provided.

CLASSIFICATION: 09 67 23 Resinous Flooring

PRODUCT DESCRIPTION: KEY #597-MVT is a low viscosity, water-emulsion, penetrating epoxy primer designed for use as a moisture vapor treatment on concrete floor slabs with excessive moisture vapor emission rates or a high internal moisture content. KEY #597-MVT will tolerate moisture vapor emission rates (MVER) up to 20 lbs moisture per 1,000 square feet per 24 hours when tested in accordance with ASTM F1869. When tested in accordance with ASTM F2170 it will tolerate up to 99% relative humidity. If moisture tests exceed these limits contact Key Resin Technical Service for recommendations.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

|                            |                                 |                                                             |
|----------------------------|---------------------------------|-------------------------------------------------------------|
| Inventory Reporting Format | Residuals/Impurities Evaluation | For all contents above the threshold, the manufacturer has: |
| → Basic Method             | → Completed                     |                                                             |
| Threshold Disclosed Per    | Explanation(s) provided :       | Characterized                                               |
| → Product                  | Yes                             | Provided weight and role.                                   |
| Threshold Level            |                                 | Screened                                                    |
| → 100 ppm                  |                                 | Provided screening results using HPDC-approved methods.     |
|                            |                                 | Identified                                                  |
|                            |                                 | 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.

PRODUCT | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY

GREENSCREEN SCORE | HAZARD TYPE

KEY #597-MVT PENETRATING PRIMER [ BISPHENOL A

EPICHLOROHYDRIN POLYMER LT-P1 | MUL | SKI | EYE | AQU

UNDISCLOSED NoGS WATER BM-4 ALKYL (C12, C14) GLYCIDYL

ETHER LT-P1 | MUL | SKI ]

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

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

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This HPD is Identified-No due to proprietary substances in the product.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

|                                                                                                 |                                                                         |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Material (g/l): < 50, compliant to low VOC Rule 1113 in all 50 states                           | Regulatory (g/l): < 50, 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 Option 2.

Pre-checked for LEED v4.1 Option 1.

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 3.0, available on the HPDC website at: [www.hpd-collaborative.org/hpd-3-0-standard](http://www.hpd-collaborative.org/hpd-3-0-standard)

KEY #597-MVT PENETRATING PRIMER

|                                                                                                                                                   |                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| PRODUCT THRESHOLD: 100 ppm                                                                                                                        | RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes |
| RESIDUALS AND IMPURITIES NOTES: The product is estimated to have no residuals/impurities over 100 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 12:21:48                                                                                |          |                        |
| %: 27.2000 - 40.8000                                      | 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:    |                                                        |                                                                                                                                                                            |

|                                                                                                      |                          |                                                |                                                   |                                     |
|------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------|---------------------------------------------------|-------------------------------------|
| UNDISCLOSED                                                                                          |                          |                                                |                                                   | ID: Undisclosed                     |
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b>                                     |                          |                                                | HAZARD SCREENING DATE: <b>2024-06-11 12:21:48</b> |                                     |
| %: <b>21.8700 - 38.2700</b>                                                                          | GreenScreen: <b>NoGS</b> | RC: <b>None</b>                                | NANO: <b>No</b>                                   | SUBSTANCE ROLE: <b>Curing agent</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: The substance ID and name are not disclosed on this HPD due to proprietary reasons. |                          |                                                |                                                   |                                     |

| WATER                                                            |                                              |                 |                                                                                           | ID: 7732-18-5                  |
|------------------------------------------------------------------|----------------------------------------------|-----------------|-------------------------------------------------------------------------------------------|--------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                              |                 | HAZARD SCREENING DATE: <b>2024-06-11 12:21:48</b>                                         |                                |
| %: <b>10.9300 - 27.3300</b>                                      | GreenScreen: <b>BM-4</b>                     | RC: <b>None</b> | NANO: <b>No</b>                                                                           | SUBSTANCE ROLE: <b>Diluent</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                                                                              |                                |
| EXEMPT                                                           | European Union / European Commission (EU EC) |                 | EU - REACH Exemptions<br><br>Exempted from REACH Annex IV listing due to intrinsic safety |                                |
| SUBSTANCE NOTES:                                                 |                                              |                 |                                                                                           |                                |

|                                                           |  |                                            |  |                |
|-----------------------------------------------------------|--|--------------------------------------------|--|----------------|
| ALKYL (C12, C14) GLYCIDYL ETHER                           |  |                                            |  | ID: 68609-97-2 |
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |  | HAZARD SCREENING DATE: 2024-06-11 12:21:49 |  |                |

| 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]   |
| SKI                 | GHS - New Zealand                           | Skin irritation category 2                                               |
| SKI                 | GHS - Australia                             | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]   |
| SKI                 | GHS - Japan                                 | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2] |
| SKI                 | GHS - New Zealand                           | Skin sensitisation category 1                                            |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                        | NOTIFICATION                                                             |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)       | GSPI - Six Classes Precautionary List                                    |
|                     |                                             | Some Solvents                                                            |

SUBSTANCE NOTES:

## Section 3: 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 V1.2 (Section 01350/CHPS) - Classroom & Office scenario |                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------|
| <b>COMPLIANCE TYPE:</b> Second Party<br><b>CERTIFIER/VERIFIER/TESTING LAB/AUDITOR:</b> UL<br>Environment - Marietta, 2211 Newmarket Parkway, Marietta, GA 30067-9399<br><b>COMPLIANCE DETAILS:</b><br><b>COMPLIANCE SCOPE:</b><br><b>APPLICABLE FACILITIES:</b> All<br><b>COMPLIANCE URL:</b><br><a href="https://www.transparencycatalog.com/assets/uploads/pdf/Key-Epoxy-Terrazzo-597-502-580-108_10-28-19.pdf">https://www.transparencycatalog.com/assets/uploads/pdf/Key-Epoxy-Terrazzo-597-502-580-108_10-28-19.pdf</a><br><b>COMPLIANCE NOTES:</b> CDPH - CA Section 01350 Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers Version 1.2. | <b>ISSUE DATE:</b> 2019-10-01                                                | <b>EXPIRY DATE:</b> 2025-10-01 |
| VOC CONTENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EPA Method 24 - Volatile Matter Content (EPA 24)                             |                                |
| <b>COMPLIANCE TYPE:</b> Third Party<br><b>CERTIFIER/VERIFIER/TESTING LAB/AUDITOR:</b> Key Resin Lab<br><b>COMPLIANCE DETAILS:</b><br><b>COMPLIANCE SCOPE:</b><br><b>APPLICABLE FACILITIES:</b> All<br><b>COMPLIANCE URL:</b><br><b>COMPLIANCE NOTES:</b> EPA 24 VOC Content Components of Waterborne Material                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>ISSUE DATE:</b> 2018-06-30                                                | <b>EXPIRY DATE:</b> 2025-10-01 |

## 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

Combining the HPD information of Key 597 Part A with Part B as a finished product.

## MANUFACTURER INFORMATION

MANUFACTURER: **Key Resin Company**  
ADDRESS: **4050 Clough Woods Drive**  
**Batavia, Ohio 45103**  
COUNTRY: **USA**

WEBSITE: **www.keyresin.com**  
CONTACT NAME: **Travis Barkey**  
TITLE: **Technical Director**  
PHONE: **5139434225**  
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

**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](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 for compliance with the HPD standard noted.*