# International Cellulose Corporation - K-13 / K-13 Special / SonaSpray K-13 Insulation System by Saint Gobain

SCREENING DATE: 2025-11-18
PUBLISHED DATE: 2025-11-18
EXPIRY DATE: 2028-11-18
PREPARER: Self-Prepared

**Health Product Declaration v3.0**
created via: HPDC Online Builder

**HPD UNIQUE IDENTIFIER:** 1113358336
**HPD UNIQUE PRODUCT ID:** Not provided.
**CLASSIFICATION:** 07 21 29 Sprayed Insulation
**PRODUCT DESCRIPTION:** K-13 is a spray-applied, acoustic/thermal insulation system tailored to meet the acoustic (NRC), thermal (R-Value), and design objectives for a wide range of project types. K-13 is applied to common construction substrates, and can adhere to complex or irregular surfaces, including domes. K-13 is class 1 class A rated, and serves as an exposed, interior finish, requiring no additional coatings or materials. K-13 cellulose fibers are manufactured in the USA from 80% recycled materials, and applied utilizing SK-2000 - a zero-VOC, water-based adhesive. This HPD covers all components of the K-13 Acoustical/Thermal System, including the treated cellulose fibers and adhesive. Also includes 09 83 00 Acoustic Finishes.

## Section 1: Summary

**Nested Method / Product Threshold**

### CONTENT INVENTORY

**Inventory Reporting Format**
→ Nested Materials Method

**Threshold Disclosed Per**
→ Product

**Threshold Level**
→ 100 ppm

**Residuals/Impurities Evaluation**
Completed in **2** of **2** Materials

**Explanation(s) provided for Residuals/Impurities?**
Yes

*For all contents above the threshold, the manufacturer has:*

**Characterized** Yes
*Provided weight and role.*

**Screened** Yes
*Provided screening results using HPDC-approved methods.*

**Identified** Yes
*Provided name and CAS RN or other identifier.*

### CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

**NESTED MATERIAL** | **MATERIAL OR SUBSTANCE** | *RESIDUAL OR IMPURITY*
GREENSCREEN SCORE | HAZARD TYPE

**SK-2000 ADHESIVE [ WATER** BM-4 **POLYVINYL ALCOHOL** LT-UNK **ETHYLENEVINYLACETATE COPOLYMER** LT-UNK **] K-13 TREATED CELLULOSE FIBER INSULATION [ MIXED RECYCLED PAPER BORIC ACID** LT-1 | END | DEV | REP | MUL | MAM | EYE | SKI **BORAX** LT-1 | END | REP | MUL | MAM | EYE | SKI **HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES (MINERAL OIL), CONTAINING LESS THAN 3% DMSO AS MEASURED BY IP 346** LT-P1 | CAN | SKI | DEV **]**

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

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

Nanomaterial ... No

**INVENTORY AND SCREENING NOTES:**

Antimicrobial Pesticides Reporting: This product does not contain substance(s) that are intentionally added above the [Product - 100 ppm] threshold to act as antimicrobials.

Special Conditions applied: [MixedRecycledContent]

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.3, and discloses hazards associated with all substances present at or above 100 parts per million (ppm) in the finished product, along with the role and percent weight. Substances not "Identified" are those considered proprietary to suppliers.

### VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 0 g/l Regulatory (g/l): 0 g/l
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

### COMPLIANCE *See Section 3 for additional listings.*

VOC emissions: GREENGUARD Gold Certified
VOC emissions: UL/GreenGuard Certified
VOC content: Emission Classification of Building Materials - M1
Multi-attribute: Cradle to Cradle Certified - Bronze (V3.1)

### CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1.
Pre-checked for LEED v4.1 Option 1.

## 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 3.0, available on the HPDC website at: www.hpd-collaborative.org/hpd-3-0-standard*

**SK-2000 ADHESIVE** **%: 65.0000 - 70.0000**

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

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier documentation and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Standard diluted adhesive mixture at the point of installation.

## WATER

ID: **7732-18-5**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-11-18 9:17:02**

%: **88.0000 - 96.0000** GreenScreen: **BM-4** RC: **None** 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<br><br>Exempted from REACH Annex IV listing due to intrinsic safety |

SUBSTANCE NOTES: GreenScreen Benchmark® assessment score of BM-4 was provided by the HPD Builder Tool.

## POLYVINYL ALCOHOL

ID: **9002-89-5**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-11-18 9:17:02**

%: **1.0000 - 3.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Adhesive**

| 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:

## ETHYLENEVINYLACETATE COPOLYMER

ID: **24937-78-8**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-11-18 9:17:03**

%: **1.0000 - 3.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Adhesive**

| 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:

## K-13 TREATED CELLULOSE FIBER INSULATION

**%: 30.0000 - 35.0000**

PRODUCT THRESHOLD: 100 ppm | RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes | MATERIAL TYPE: Plant-Based Fiber

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier documentation and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Treated Cellulose Fiber Insulation mixed with diluted adhesive prior to application.

## MIXED RECYCLED PAPER

ID: **Mixed Recycled Content**

HAZARD DATA SOURCE: **HPDC Special Conditions Policy**

%: **81.5000 - 82.0000** | GreenScreen: **Not Required** | RC: **PreC** | NANO: **No** | MATERIAL ROLE: **Insulator**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|---|---|---|

Hazard Screening is not applicable to this Special Condition

INGREDIENT DESCRIPTION: Cellulose Fiber Pulp

ANALYTICAL TESTING: EN71-3 Migration of Chromium (VI); Method: DIN EN71-3:2019-08, IC-UV/VIS; Chromium (VI) – Category I & III, Chromium (VI) – Category II. Halogenorganic Compounds; Method: Soxhlet Technique; AOX, EOX. Eurofins-Consumer Product Testing; Report Number 2021-753-43 (Cellulose Fiber Blends Pulp); Report Number 2021-753-42 (Cellulose Fiber Blend Rolls).

BATCH VARIATION: Yes, Natural origin of the raw materials.

COUNTRY OF ORIGIN: USA

MATERIAL CONTENT NOTES: Includes pre-consumer recycled material from various domestic (USA) sources. Please contact manufacturer if more information is required.

This disclosure does not provide information on the potential presence of hazardous substances which may be found in certain mixed recycled materials.

## BORIC ACID

ID: **10043-35-3**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** | HAZARD SCREENING DATE: **2025-11-18 9:17:03**

%: **15.0000 - 17.0000** | GreenScreen: **LT-1** | RC: **None** | NANO: **No** | SUBSTANCE ROLE: **Flame retardant**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS |
|---|---|---|
| END | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| DEV | MAK | Pregnancy Risk Group B |
| REP | EU - Annex VI CMRs | Reproductive Toxicity - Category 1B |
| MUL | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant |
| END | EU - Priority Endocrine Disruptors | Category 1 - In vivo evidence of Endocrine Disruption Activity |
| REP | GHS - Japan | H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B] |
| REP | GHS - Australia | H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B] |
| REP | EU - GHS (H-Statements) Annex 6 Table 3-1 | H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B] |
| MAM | GHS - Japan | H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3] |
| EYE | GHS - New Zealand | Eye irritation category 2 |
| MAM | GHS - Japan | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1] |
| SKI | GHS - Japan | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2] |
| REP | GHS - New Zealand | Reproductive toxicity category 2 |
| REP | EU - SVHC List | Toxic to reproduction - Candidate list |
| REP | EU - SVHC List | Toxic to reproduction - Prioritized for listing |
| REP | EU - REACH Annex XVII CMRs | Reproductive toxicants: Category 1B |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION |
|---|---|---|
| RESTRICTED LIST | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br><br>Antimicrobials |
| RESTRICTED LIST | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>All Products |
| RESTRICTED LIST | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>Children's Toy Products |
| RESTRICTED LIST | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>Cosmetics and Personal Care Products |

SUBSTANCE NOTES: Borate-treated cellulose insulation was tested for purposes of hazard classification under the Occupational Safety and Health Administration's 2012 Hazard Communication Standard. In a study conducted under OECD Guideline 414, there were no developmental effects in rats exposed to up to 270 mg/m3 (the highest exposure tested). In workers chronically exposed to high levels of borates for several years by way of inhalation, food, and drinking water, there was a clear absence of any reproductive effects. For boric acid and substantially similar mixtures (specifically, sodium tetraborate pentahydrate and sodium tetraborate decahydrate), the reproductive toxicity is substantially equivalent; therefore, the same hazard category (i.e., no classification for reproductive toxicity) may be applied.

**BORAX** ID: **1303-96-4**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-11-18 9:17:04**

%: **2.0000 - 5.0000** GreenScreen: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Flame retardant**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS |
|---|---|---|
| END | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| REP | EU - Annex VI CMRs | Reproductive Toxicity - Category 1B |
| MUL | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant |
| REP | GHS - Japan | H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B] |
| REP | GHS - Australia | H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B] |
| REP | EU - GHS (H-Statements) Annex 6 Table 3-1 | H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B] |
| MAM | GHS - Japan | H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3] |
| 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 - Japan | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1] |
| SKI | GHS - Japan | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2] |
| REP | GHS - New Zealand | Reproductive toxicity category 2 |
| REP | EU - SVHC List | Toxic to reproduction - Candidate list |
| REP | EU - SVHC List | Toxic to reproduction - Prioritized for listing |
| REP | EU - REACH Annex XVII CMRs | Reproductive toxicants: Category 1B |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION |
|---|---|---|
| RESTRICTED LIST | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List<br><br>Antimicrobials |
| RESTRICTED LIST | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>All Products |
| RESTRICTED LIST | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>Children's Toy Products |
| RESTRICTED LIST | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>Cosmetics and Personal Care Products |

SUBSTANCE NOTES: Borate-treated cellulose insulation was tested for purposes of hazard classification under the Occupational Safety and Health Administration's 2012 Hazard Communication Standard. In a study conducted under OECD Guideline 414, there were no developmental effects in rats exposed to up to 270 mg/m3 (the highest exposure tested). In workers chronically exposed to high levels of borates for several years by way of inhalation, food, and drinking water, there was a clear absence of any reproductive effects. For boric acid and substantially similar mixtures (specifically, sodium tetraborate pentahydrate and sodium tetraborate decahydrate), the reproductive toxicity is substantially equivalent; therefore, the same hazard category (i.e., no classification for reproductive toxicity) may be applied.

**HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES (MINERAL OIL), CONTAINING LESS THAN 3% DMSO AS MEASURED BY IP 346**

ID: **64742-54-7**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-11-18 9:17:03**

%: **0.0100 - 0.1000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Dedusting**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS |
|---|---|---|
| CAN | GHS - Australia | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B] |
| SKI | GHS - Australia | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2] |
| DEV | GHS - Australia | H361d - Suspected of damaging the unborn child [Reproductive toxicity - Category 2] |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION |
|---|---|---|
| RESTRICTED LIST | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>All Products |
| RESTRICTED LIST | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>Cosmetics and Personal Care Products |

SUBSTANCE NOTES: Testing confirms Poly Aromatic Compounds, PACs, DMSO Extraction, IP 346, <0.1% by weight. Certificate of Analysis available upon request.

## 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 | GREENGUARD Gold Certified | |
|---|---|---|
| **COMPLIANCE TYPE:** Third Party<br>**CERTIFIER/VERIFIER/TESTING LAB/AUDITOR:** UL Environment<br>**COMPLIANCE DETAILS:**<br>**COMPLIANCE SCOPE:**<br>**APPLICABLE FACILITIES:** Houston, TX<br>**COMPLIANCE URL:** https://spot.ul.com/main-app/products/detail/5ad1ed0855b0e82d946a8f01?page_type=Products%20Catalog<br>**COMPLIANCE NOTES:** K-13 Certificate number: 81873-420. UL 2818 - 2022 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. | **ISSUE DATE:** 2016-07-05 | **EXPIRY DATE:** 2026-07-05 |

| VOC EMISSIONS | UL/GreenGuard Certified | |
|---|---|---|
| **COMPLIANCE TYPE:** Third-party certification<br>**CERTIFIER/VERIFIER/TESTING LAB/AUDITOR:** UL<br>**COMPLIANCE DETAILS:**<br>**COMPLIANCE SCOPE:**<br>**APPLICABLE FACILITIES:** Houston, TX<br>**COMPLIANCE URL:** https://spot.ul.com/main-app/products/detail/5ad1ed0855b0e82d946a8f01?page_type=Products%20Catalog<br>**COMPLIANCE NOTES:** K-13 Certificate Number 81873-410. UL 2818 - 2022 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings | **ISSUE DATE:** 2016-07-05 | **EXPIRY DATE:** 2026-06-28 |

| VOC CONTENT | Emission Classification of Building Materials - M1 | |
|---|---|---|
| **COMPLIANCE TYPE:** Third-party certification<br>**CERTIFIER/VERIFIER/TESTING LAB/AUDITOR:** Rakennustietosäätiö RTS sr<br>**COMPLIANCE DETAILS:**<br>**COMPLIANCE SCOPE:**<br>**APPLICABLE FACILITIES:** All Facilities<br>**COMPLIANCE URL:** https://www.spray-on.com/wp-content/uploads/ICC_K-13_-EPD_JAN20.pdf<br>**COMPLIANCE NOTES:** The classification committee appointed by Rakennustietosäätiö RTS sr has approved products: K-13 SonaKrete SonaSpray FC SonaSpray FCX SonaSpray SP ThermoCon FC ThermoCon SB ThermoCon ST | **ISSUE DATE:** 2024-11-13 | **EXPIRY DATE:** 2027-11-13 |

| MULTI-ATTRIBUTE | Cradle to Cradle Certified - Bronze (V3.1) |
|---|---|

**COMPLIANCE TYPE:** Third Party
**ISSUE DATE:** 2024-11-15
**EXPIRY DATE:** 2025-12-15
**CERTIFIER/VERIFIER/TESTING LAB/AUDITOR:** EPEA GmbH - Part of Drees & Sommer
**COMPLIANCE DETAILS:**
**COMPLIANCE SCOPE:**
**APPLICABLE FACILITIES:** Houston, TX 77045 USA
**COMPLIANCE URL:** https://cdn.c2ccertified.org/certifications/International_Cellulose_Corporation/K-13_SonaSpray_and_Thermocon_Spray-on_Thermal_and_Acoustical_Finishes/Inter_K13_S_Bronz_CERT7267_2025-09-18_101846.pdf
**COMPLIANCE NOTES:** Certification Number: 5023. Includes the following products: K-13, SonaSpray "fc", SonaKrete, Ure-K, SonaSpray, SonaSpray K-13, SonaSpray FC, SonaSpray FCX, SonaSpray SP, Thermocon,Thermocon SB, Thermocon FC, Thermocon FCX. Excluded: Color variations obtained from the following pigments: Violet ER02, 1522 Bon Maronn, First yellow PGX-01, brown 772BN, red/orange RA18B, Phtalo blue pck-2000, Milori blue, phtalo green 787, red iron oxide, and Verdacol red 3571. This certification is considered provisional pending completion of the manufacturing facility site visit, which was postponed due to 2020-21 global travel restrictions.

## 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

K-13 is the natural choice for new construction, renovation and historic preservation projects. K-13 is sprayed-in-place, filling cracks, seams, and voids to form a monolithic coating over the substrate helping to reduce air infiltration. Unlike prefabricated insulations, K-13 has no voids or compressed areas to reduce thermal efficiency, resulting in exceptionally low heat-loss characteristics and an R-Value of 3.75 per inch. K-13's superior acoustical performance is measured using the room reverberation method per ASTM C 423 to calculate a noise reduction coefficient (NRC). The resilient fibers of K-13 absorb sound energy instead of reflecting it, effectively reducing reverberation time and making it the perfect solution for noisy environments like restaurants, entertainment venues, or open-office plans. K-13 is available in five standard colors (Tan, White, Light Gray, Dark Gray, Black) as well as specially-matched custom colors.

# Section 6: References

**MANUFACTURER INFORMATION**


MANUFACTURER: **Saint Gobain**
ADDRESS: **20 Moores Rd**
**Malvern, PA 19355**
COUNTRY: **United States**

WEBSITE: **www.spray-on.com**
CONTACT NAME: **Joe Witt**
TITLE: **Technical Service Manager**
PHONE: **(713) 610-4712**
EMAIL: **joe.witt@saint-gobain.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, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

**Recycled Types**

**PreC** Pre-consumer recycled content
**PostC** Post-consumer recycled content
**UNK** Inclusion of recycled content is unknown
**None** Does not include recycled content

**Other Terms:**

**GHS SDS** Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

**Inventory Methods:**

**Nested Method** / **Material Threshold** Substances listed within each material per threshold indicated per material
**Nested Method** / **Product Threshold** Substances listed within each material per threshold indicated per product
**Basic Method** / **Product Threshold** Substances listed individually per threshold indicated per product

**Nano** Composed of nano scale particles or nanotechnology
**Third Party Verified** Verification by independent certifier approved by HPDC
**Preparer** Third party preparer, if not self-prepared by manufacturer
**Applicable facilities** Manufacturing sites to which testing applies

*The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:*

- *a method for the assessment of exposure or risk associated with product handling or use,*
- *a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.*

*Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.*

*The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.*

*The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.*