

CLASSIFICATION: 09 65 19

PRODUCT DESCRIPTION: TEKNOFLOR® RARE PLANK HPD™ Collection of Luxury Vinyl Plank is the brand's first ever luxury vinyl plank, designed to offer the look of real wood in a durable, modern and low-maintenance design. Twenty-two traditional, realistic wood visuals are now available in 7" x 47" planks that are made from 100% virgin vinyl, which means they are free of phthalate plasticizers. The planks stand true to the Teknoflor brand's signature low maintenance qualities, requiring No Wax and No Buff. Each plank is cut from one large piece of print film, providing a realistic and beautiful variation within each carton. This warm wood look will fill any space with rich beauty for years to come.

Section 1: Summary **Basic Method / Product Threshold**

CONTENT INVENTORY

<p>Inventory Reporting Format</p> <p><input type="radio"/> Nested Materials Method</p> <p><input checked="" type="radio"/> Basic Method</p> <p>Threshold Disclosed Per</p> <p><input type="radio"/> Material</p> <p><input checked="" type="radio"/> Product</p>	<p>Threshold level</p> <p><input checked="" type="radio"/> 100 ppm</p> <p><input type="radio"/> 1,000 ppm</p> <p><input type="radio"/> Per GHS SDS</p> <p><input type="radio"/> Per OSHA MSDS</p> <p><input type="radio"/> Other</p>	<p>Residuals/Impurities</p> <p><input type="radio"/> Considered</p> <p><input type="radio"/> Partially Considered</p> <p><input checked="" type="radio"/> Not Considered</p> <p><small>Explanation(s) provided for Residuals/Impurities?</small></p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>All Substances Above the Threshold Indicated Are:</i></p> <p>Characterized <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>% weight and role provided for all substances.</i></p> <p>Screened <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p><i>One or more substances not screened using Priority Hazard Lists with results disclosed and/ or one or more Special Condition did not follow guidance.</i></p> <p>Identified <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p><i>One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.</i></p>
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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.

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

TEKNOFLOR® RARE PLANK HPD™ LUXURY VINYL PLANK [POLYVINYL CHLORIDE (PVC) LT-P1 | RES DOLOMITE NoGS HEXANEDIOIC ACID, POLYMER WITH 1,2-ETHANEDIOL AND 1,6-DIISOCYANATO-2,2,4(OR 2,4,4)-TRIMETHYLHEXANE, 2-HYDROXYETHYL ACRYLATE-BLOCKED NoGS POLYVINYL CHLORIDE (PVC) LT-P1 | RES POLY(OXY-1,2-ETHANEDIYL), ALPHA-(1-OXO-2-PROPEN1-YL)-OMEGA-((1-OXO-2-PROPEN-1-YL)OXY)- LT-UNK DIPROPYLENE GLYCOL DIACRYLATE LT-UNK BIS(2-ETHYLHEXYL) TEREPHTHALATE BM-3 BIS(2-ETHYLHEXYL) TEREPHTHALATE BM-3 TRIMETHYLOLPROPANE TRIACRYLATE LT-P1 | RES | CAN | SKI | EYE PVC STABILIZER Not Screened PVC STABILIZER Not Screened CARBON BLACK LT-1 | CAN PROCESSING AID Not Screened]

Number of Greenscreen BM-4/BM3 contents ... 2
 Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1
 Nanomaterial ... No
INVENTORY AND SCREENING NOTES:
 This HPD was created with Basic Inventory.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: RFCI FloorScore
 Other: REACH European Union Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

Yes

No

PREPARER: **Self-Prepared**

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2019-01-25

PUBLISHED DATE: 2019-01-25

EXPIRY DATE: 2022-01-25



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 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

TEKNOFLOR® RARE PLANK HPD™ LUXURY VINYL PLANK

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: While Teknoflor® Rare Plank HPD does not meet the qualifications for "Residuals & Impurities - Considered" per HPDC's Emerging Best Practices, we have 1) disclosed all known, intentionally-added ingredients; 2) Tested Teknoflor® Rare Plank HPD to ensure it is free of Red List Heavy Metals, Phthalate-Free, Formaldehyde-Free, complies with REACH SVHC, and meets VOC Emissions/Indoor Air Quality requirements per FloorScore / California Section 01350.

OTHER PRODUCT NOTES: All known intentional ingredients of Teknoflor Rare Plank HPD are disclosed in this HPD.

POLYVINYL CHLORIDE (PVC)

ID: 9002-86-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-01-25

#: 65.0000 - 70.0000 GS: LT-P1 RC: None NANO: No ROLE: Wear Layer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: PVC Resin for the wear layer

DOLOMITE

ID: 16389-88-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-01-25

#: 37.0000 - 46.0000 GS: NoGS RC: None NANO: No ROLE: Mid-Bottom Layer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: Filler

HEXANEDIOIC ACID, POLYMER WITH 1,2-ETHANEDIOL AND 1,6-DIISOCYANATO-2,2,4(OR 2,4,4)-TRIMETHYLHEXANE, 2-HYDROXYETHYL ACRYLATE-BLOCKED

ID: 141686-56-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-01-25

#: 25.0000 - 30.0000

GS: NoGS

RC: None

NANO: No

ROLE: PU Coating Layer

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: U/T Acrylate Resin

POLYVINYL CHLORIDE (PVC)

ID: 9002-86-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-01-25

#: 25.0000 - 33.0000

GS: LT-P1

RC: None

NANO: No

ROLE: Mid Bottom Layer

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: PVC Resin

POLY(OXY-1,2-ETHANEDIYL), ALPHA-(1-OXO-2-PROPEN1-YL)-OMEGA-((1-OXO-2-PROPEN-1-YL)OXY)-

ID: 26570-48-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-01-25

#: 20.0000 - 25.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: PU Coating Layer

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Monomer

DIPROPYLENE GLYCOL DIACRYLATE

ID: 57472-68-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-01-25

#: 20.0000 - 25.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: PU Coating Layer

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Monomer

BIS(2-ETHYLHEXYL) TEREPHTHALATE

ID: 6422-86-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-01-25

#: 20.0000 - 25.0000

GS: BM-3

RC: None

NANO: No

ROLE: Wear Layer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: **Plasticizer**

BIS(2-ETHYLHEXYL) TEREPHTHALATE

ID: **6422-86-2**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-01-25			
%: 6.0000 - 13.0000	GS: BM-3	RC: None	NANO: No	ROLE: Mid-Bottom Layer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: **Plasticizer**

TRIMETHYLOLPROPANE TRIACRYLATE

ID: **15625-89-5**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-01-25			
%: 5.0000 - 10.0000	GS: LT-P1	RC: None	NANO: No	ROLE: PU Coating Layer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
CANCER	IARC	Group 2B - Possibly carcinogenic to humans
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: **Monomer**

PVC STABILIZER

ID: **Unknown**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-01-25			
%: 1.2000 - 4.0000	GS: Not Screened	RC: None	NANO: No	ROLE: Mid-Bottom Layer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening not performed		

SUBSTANCE NOTES: **PVC Stabilizer used in the mid-bottom layer during production. Limited data supplied by the supplier.**

PVC STABILIZERID: **Unknown**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-01-25**%: **1.0000 - 3.0000**GS: **Not Screened**RC: **None**NANO: **No**ROLE: **Wear Layer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES: **Stabilizer is unknown with limited data supplied by the supplier.****CARBON BLACK**ID: **1333-86-4**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-01-25**%: **0.5000 - 1.0000**GS: **LT-1**RC: **None**NANO: **No**ROLE: **Mid Bottom Layer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: **Pigment used for darker color****PROCESSING AID**ID: **Unknown**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-01-25**%: **0.5000 - 2.0000**GS: **Not Screened**RC: **None**NANO: **No**ROLE: **Wear Layer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES: **This substance is a processing aid and limited data was supplied by the supplier.**

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

RFCI FloorScore

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

https://www.scs-certified.com/products/cert_pdfs/Shannon_2018_SCS-FS-04933_s3.pdf

ISSUE DATE:

2018-10-01

EXPIRY DATE:

2019-09-30

CERTIFIER OR LAB:

SCS Global Services

CERTIFICATION AND COMPLIANCE NOTES: **Registration #: SCS-FS-04933**

OTHER

REACH European Union Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

ISSUE DATE: **2017-10-02**

EXPIRY DATE:

CERTIFIER OR LAB: **Eurfin Product Testing A/S**

CERTIFICATION AND COMPLIANCE NOTES: **Tested for 191 substances of very high concern.**

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.

TUF STIK 9000 TRANSITION PRESSURE SENSITIVE (TPS) ADHESIVE

HPD URL: https://www.shannonspecialtyfloors.com/wp-content/uploads/2016/05/Product-Data-Sheet_Tuf-Stik-9000-Adhesive_REV-Jan-2016.pdf

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

SUITABLE SUBSTRATES: Properly prepared double layer wood subfloors with a minimum 1 inch total thickness using APA or other suitable ¼ inch or thicker underlayment grade plywood; terrazzo; ceramic; existing well adhered non-cushion vinyl tile and sheet goods; radiant heated subfloors where surface temperatures do not exceed 85° F (29.40° C); and above, on, or below grade concrete in the absence of hydrostatic pressure, excessive moisture or surface alkalinity. The pH level of concrete must be between 8.0 and 10.0 (do not install if over 10.0 pH). Moisture level of concrete must be at or below 90.0% Relative Humidity (ASTM F-2170) and or 8.0 lbs./1000 sq. ft./24 hours Moisture Vapor Emissions Rate (ASTM F-1869). Wood substrates must be checked with a calibrated pin moisture meter. Readings between the subfloor / structural wood and underlayment panels must be within 2% and be less than 14% moisture content. If test results exceed the adhesive limitations, the installation should not proceed until the problem has been corrected. **SUBSTRATE PREPARATION:** All substrates must be sound, clean, flat and smooth, dry and free of dust, dirt, wax, grease and oil, marker and paint, and any other deleterious contaminants that may stain the flooring or interfere with a good bond. Concrete must be fully cured and free of hydrostatic pressure or excessive moisture or out of spec surface alkalinity conditions and shall be free of incompatible curing compounds or sealers, fire retardant chemicals, release agents and other concrete treatments or additives that may prevent a good bond. Level high spots and fill low spots, crack or depressions using a high quality 3,500 psi cement or calcium aluminate smoothing and patching underlayment according to the instruction of the underlayment manufacturer. Do not fill expansion joints or other moving joints. Always perform a bond test prior to installation. **DO NOT** install over chemically abated or chemically cleaned substrates. It is the sole responsibility of the installer/contractor to ensure the substrate is suitable and is properly prepared prior to installation.

TUF STIK 150 SPRAY ADHESIVE

HPD URL: https://www.shannonspecialtyfloors.com/wp-content/uploads/2015/11/TUF_STIK_150_Product_Data_Sheet_rev_FEB16.pdf

Substrate Preparations: TUF STIK-150 Spray Adhesive may be used on porous or non-porous surfaces such as wood or metal or existing fully bonded floors like ceramic tile, VCT or non-cushioned tile or sheet vinyl and over concrete substrates with up to 93% in-situ Relative Humidity (ASTM F2170) and pH 8.0-10.0 (ASTM F710). Substrates shall be properly prepared in accordance with the current version of the applicable Shannon Specialty Floors Installation Guidelines and the ASTM F710 for concrete slabs or ASTM F1482 for panel subfloors. The substrate must be dry and clean, smooth and flat. Remove existing adhesive, paint, marker dust, dirt or any foreign matter or contaminants that may stain the flooring or interfere with a good bond. The installation site must be acclimated with HVAC in operation. The subfloor and room temperature, as well as flooring materials and adhesive, should be within 2-3° F of each other and maintained at a stable temperature between 65°- 85° F with relative humidity between 35%-65% for 48 hours prior to, during, and after the testing and installation. Do not use on substrates that have been chemically cleaned. Testing the substrate with an impedance meter testing (refer to ASTM F2659) is highly recommended due to issues related to topical moisture from Dew Point conditions. Substrate surfaces should not read over 3.5% on the impedance meter for any adhesive application. **Application:** Coverage will depend on the substrate and the flooring to be installed, generally between 125-150 square feet per 22 ounce can. Shake can well before each use. Point can downwards, press the side of the nozzle tip as you slowly walk back and forth overlapping passes achieving uniform coverage. Do not use a sweeping motion as this can cause uneven coverage. Clean up drips when they occur with a cloth dampened with clean water. When using on a non-porous substrate, a lighter application may be necessary. Apply a heavier application for tile and plank products and at the seams and along all edges of sheet flooring. Between uses, clean the spray tip immediately with a clean wet cloth to prevent accumulation of dried adhesive. If spray pattern deteriorates, remove tip and clean out all adhesive. Reapply nozzle and continue spray application. **NOTE:** As all projects are different, it is the installer's responsibility to determine the proper adhesive coverage appropriate for jobsite conditions. Conduct bond testing before the installation to determine the adhesive application rate, open and working times and to identify any potential bonding issues. To determine the accurate adhesive coverage rate, measure and chalk line the substrate into grids for the appropriate square feet of area for the adhesive application. Evenly spray the entire can of adhesive onto each measured grid area. **Open Time:** Allow the adhesive to dry completely with no transfer to fingers when lightly touched. Open time is generally 20-40 minutes and will vary depending on the adhesive coverage, substrate porosity and the ambient conditions. **Working time** for the adhesive should not exceed 3 hours from application. **Flooring Installation:** When dry to touch, lay flooring onto adhesive. Make sure the flooring is laid tightly together, aligned and balanced to room. Roll the floor immediately after the installation is complete with a 100 lb. roller. Sheet flooring seams may be heat welded immediately after installation. Normal traffic may be allowed as soon as the installation, finishing and clean-up are complete. **Safety and Clean Up:** Wet adhesive overspray or drips should be cleaned with soap and water on a clean cloth. Dried adhesive may require the use of a heavy duty floor cleaner or Goof Off® cleaner. Relieve pressure in empty aluminum spray cans and recycle or dispose of in accordance with local requirements. Do not expose to temperatures exceeding 115° F (46°C) as prolonged exposure to heat or direct sun may cause can to burst. **DO NOT ALLOW PRODUCT TO FREEZE.** **LEED PROGRAM CERTIFICATIONS** (where applicable) o IEQ Credit 4.1--Low Emitting Materials o IEQ Credit 4.3--Low VOC ratings help qualify installations for this credit as part of a flooring system. o MR Credit 5--Regional Materials--on jobsites within 500 miles from manufacturing location: Dalton, GA 30721. **FIRST AID:** Avoid contact with eyes and skin. For eye contact, flush thoroughly with water for 15 minutes and get immediate medical attention. For skin contact, wash area with soap and water. If swallowed, do not induce vomiting; get medical attention immediately. If inhaled, remove person to fresh air; for difficulty breathing, get immediate medical attention. Contact Shannon Specialty Sales Customer Service or visit our website at www.shannonspecialtyfloors.com for additional information and Safety Data Sheet. **Disclaimer:** It is the user's responsibility to review and determine the suitability of this information and product for their intended purpose. The manufacturer is not responsible for the misuse of this product. This Product Data Sheet and the information conveyed herein supersede all previous versions. 01262016

**TUF STIK SPX - MULTI-FUNCTIONAL
ADHESIVE**

HPD URL: https://www.shannonspecialtyfloors.com/wp-content/uploads/2015/11/TUF_STIK_150_Product_Data_Sheet_rev_FEB16.pdf

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

TUF STIK SPX™ features extremely low permeability ratings, withstands maximum moisture levels of 10 lbs. and 90% RH, provides sound deadening performance up to IIC 59 & STC 61 sound ratings with a Delta IIC of 19, imparts crack isolation protection up to 1/8", enhances thermal insulating properties, and is unaffected by concrete slab alkalinity. TUF STIK SPX™ has low odor, negligible VOC content, contains no hazardous chemicals as per OSHA Regulation CFR 1910.1200 and meets all federal, state, and local governmental indoor air quality regulations. This specially formulated adhesive provides early strength and quickly builds into a tenacious but elastic resilient bond as the adhesive cross-links. Plasticizer migration resistance allows installation of a broad variety of resilient floor products. TUF STIK SPX™ may be used over APA grade underlayment plywood, association grade particleboard, OSB, cork underlayment, existing well-bonded resilient flooring, terrazzo, cementitious and anhydrite screeds, concrete, and radiant heated subfloors where surface temperatures do not exceed 85° F (29.40° C). Install above, on, or below grade, in the absence of excessive moisture. While this adhesive is waterproof when cured, during installation and curing, the adhesive must be protected from excessive moisture. Moisture levels of concrete must be below 10 lbs. per 1000 sq. feet per 24 hours (according to ASTM F-1869 test method) and 90.0% RH (tested in accordance with ASTM F-2170).

Section 5: General Notes

Please visit shannonspecialtyfloors.com to learn more about TEKNOFLOR® Rare Plank HPD™, including available designs, installation and maintenance procedures, warranty information, etc.



MANUFACTURER INFORMATION

MANUFACTURER: **Shannon Specialty Floors, Inc.**
ADDRESS: **1005 South 60th Street**
Milwaukee WI 53214, USA
WEBSITE: **www.shannonspecialtyfloors.com**

CONTACT NAME: **Tim Davis**
TITLE: **Technical Services and Sustainability Manager**
PHONE: **800-522-9166**
EMAIL: **timd@shannonspecialtyfloors.com**

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity	GLO Global warming	PHY Physical Hazard (reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive toxicity
DEV Developmental toxicity	MUL Multiple hazards	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	OZO Ozone depletion	LAN Land Toxicity
GEN Gene mutation	PBT Persistent Bioaccumulative Toxic	NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

Recycled Types

PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms

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.