

Vinyl Dry Back (2mm to 3mm), Click (5mm), and Loose Lay (5mm) Flooring by Kingdomfloor

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 09 65 00

PRODUCT DESCRIPTION: Vinyl Dry Back (2mm to 3mm) is available as a glue down plank or tile format. This collection is suitable for residential and commercial areas. Vinyl Click floor (5mm) is a fast and easy click floating system that does not require adhesive. Loose lay vinyl flooring is an extra thick 5mm construction with a proprietary sound wave backing to produce the highest IIC ratings in the market. Kingdom products are manufactured with 100% pure vinyl and free from heavy metal, phthalates and phenol. Kingdomfloor provides 20-year manufacture warranty, and the potential product lifetime can last as long as 60 years.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
 Basic Method

Threshold Disclosed Per

- Material
 Product

Threshold level

- 100 ppm
 1,000 ppm
 Per GHS SDS
 Per OSHA MSDS
 Other

Residuals/Impurities

- Considered
 Partially Considered
 Not Considered

Explanation(s) provided for Residuals/Impurities?

- Yes No

All Substances Above the Threshold Indicated Are:

Characterized Yes Ex/SC Yes No

% weight and role provided for all substances.

Screened Yes Ex/SC Yes No

All substances screened using Priority Hazard Lists with results disclosed.

Identified Yes Ex/SC Yes No

All substances disclosed by Name (Specific or Generic) and 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.

MATERIAL | **SUBSTANCE** | **RESIDUAL OR IMPURITY**

GREENSCREEN SCORE | **HAZARD TYPE**

VINYL DRY BACK (2MM TO 3MM), CLICK (5MM), AND LOOSE LAY (5MM) FLOORING [CALCIUM CARBONATE BM-3 POLYVINYL CHLORIDE (PVC) LT-P1 | RES BIS(2-ETHYLHEXYL) TEREPHTHALATE BM-3 DIOCTYL TEREPHTHALATE (DOTP) NoGS CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK STEARIC ACID LT-P1 | END ZINC STEARATE LT-P1 CARBON BLACK LT-1 | CAN EPOXY RESINS NoGS POLYETHYLENE LT-UNK]

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:

Kingdomfloor worked with a HPDC Approved Preparer to confirm that all residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 threshold.

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: NSF-332 Sustainable Resilient Floor 2007 DRAFT trial - Platinum

Other: Environmental Product Declaration (EPD) by SCS

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

PREPARER: ToxServices LLC

SCREENING DATE: 2019-03-29

Yes
 No

VERIFIER: SCS Global Services
VERIFICATION #: qGE-6370

PUBLISHED DATE: 2019-06-28
EXPIRY DATE: 2022-03-29



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

VINYL DRY BACK (2MM TO 3MM), CLICK (5MM), AND LOOSE LAY (5MM) FLOORING

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED:
Yes

RESIDUALS AND IMPURITIES NOTES: Kingdomfloor worked with a HPDC Approved Preparer to confirm that all residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 ppm threshold.

OTHER PRODUCT NOTES:

CALCIUM CARBONATE

ID: 471-34-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-29

#: 56.89 - 66.80

GS: BM-3

RC: None

NANO: No

ROLE: Filler Component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer. The GreenScreen® Benchmark assessment score of BM-3 was provided through the HPD 2.1 Builder Tool.

POLYVINYL CHLORIDE (PVC)

ID: 9002-86-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-29

#: 20.71 - 40.45

GS: LT-P1

RC: None

NANO: No

ROLE: PVC Resin, Wear Layer and Film Component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

BIS(2-ETHYLHEXYL) TEREPHTHALATE

ID: 6422-86-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-29

%: **6.07 - 8.10**

GS: **BM-3**

RC: **None**

NANO: **No**

ROLE: **DOTP Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer. The GreenScreen® Benchmark assessment score of BM-3 was provided through the HPD 2.1 Builder Tool.

DIOCTYL TEREPHTHALATE (DOTP)

ID: **4654-26-6**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

%: **0.82 - 4.53**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **PVC Wear Layer Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

ID: **65997-17-3**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

%: **0.52 - 1.44**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Fiberglass Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

STEARIC ACID

ID: **57-11-4**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

%: **0.30 - 0.49**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **DOTP and Stabilizer Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

ZINC STEARATE

ID: **557-05-1**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-03-29**

%: **0.11 - 0.20**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Stabilizer Component**

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

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-03-29**

#: **0.08 - 0.10** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Colorant Component**

| 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: This substance was properly screened by the HPD Approved Preparer.

EPOXY RESINS

ID: 61788-97-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-03-29**

#: **0.06 - 0.16** GS: **NoGS** RC: **None** NANO: **No** ROLE: **UV Coating Component**

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

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

POLYETHYLENE

ID: 9002-88-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-03-29**

#: **0.00 - 1.10** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **IXPE Component**

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

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

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 Facilities**

CERTIFICATE URL:

https://www.scs-certified.com/products/cert_pdfs/ZhejiangKingdom_2018_SCS-FS-03218_s2.pdf

ISSUE DATE:

2018-12-01

EXPIRY

DATE: **2019-11-30**

CERTIFIER OR LAB:

SCS Global

CERTIFICATION AND COMPLIANCE NOTES: **Registration # SCS-FS-03218; Indoor Air Quality Certified to SCS-EC10.3-2014 v4.0 Conforms to the CDPH/EHLB Standard Method v1.2-2017 (California Section 01350), effective April 1, 2017, for the school classroom and private office parameters when modeled as Flooring.**

OTHER

NSF-332 Sustainable Resilient Floor 2007 DRAFT trial - Platinum

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All Facilities**

CERTIFICATE URL:

https://www.scs-certified.com/products/cert_pdfs/ZhejiangKingdomPlastics_2018_SCS-RF-05179_s.pdf

ISSUE

DATE:

2018-11-19

EXPIRY

DATE:

2021-11-30

CERTIFIER OR

LAB: **SCS**

Global

CERTIFICATION AND COMPLIANCE NOTES: **Registration # SCS-RF-05179; Conforms to the NSF/ANSI 332-2015 Sustainability Assessment for Resilient Floor Coverings.**

OTHER

Environmental Product Declaration (EPD) by SCS

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All Facilities**

CERTIFICATE URL:

https://www.scs-certified.com/products/cert_pdfs/SCS-EPD-05047_KingdomFloor_071618.pdf

ISSUE DATE: **2018-**

07-16

EXPIRY DATE: **2023-**

07-15

CERTIFIER OR LAB: **SCS**

Global

CERTIFICATION AND COMPLIANCE NOTES: **SCS-EPD-05047; Product Category Rule (PCR) for preparing an Environmental Product Declaration (EPD) for Flooring: Carpet, Resilient, Laminate, Ceramic, Wood. NSF International. Version 2. 2014.**

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

Use of Special Condition - No CAS# Available: The Kingdomfloor models, which are covered under this current HPD, contain an additive chemical in which a CAS# was not able to be determined for. The component "PVC Wear Layer" contains an additive ingredient identified by the manufacturer as an "Environmental Stabilizer" that is present in the final product formulation at a maximum of 0.41% (4,100 ppm). The HPDC Approved Preparer worked with the supplier of the PVC Wear Layer and it was determined that a CAS# is not available for the environmental stabilizer additive. Therefore, the HPDC Approved Preparer has concluded that the Safety Data Sheet (SDS) published on March 13, 2015 for the PVC Wear Layer, that contains the environmental stabilizer ingredient, is compliant with the Commission Regulation (EU) No 2015/830 (EU CLP) and that no GHS Category 1 hazards are disclosed on the SDS, therefore, no HPD target hazards would be flagged for this ingredient.



MANUFACTURER INFORMATION

MANUFACTURER: **Kingdomfloor**

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Heshan Town, Tongxiang City, Jiangxing City

Zhejiang Province 314512, China

WEBSITE: **www.kingdomflooring.com.cn**

CONTACT NAME: **Customer Support**

TITLE: **Customer Support**

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EMAIL: **Sales@kingdomflooring.com.cn**

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

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

MAM Mammalian/systemic/organ toxicity

MUL Multiple hazards

NEU Neurotoxicity

OZO Ozone depletion

PBT Persistent Bioaccumulative Toxic

PHY Physical Hazard (reactive)

REP Reproductive toxicity

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

LAN Land Toxicity

NF Not found on Priority Hazard Lists

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 (insufficient data to benchmark)

LT-P1 List Translator Possible Benchmark 1

LT-1 List Translator Likely Benchmark 1

LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

NoGS Unknown (no data on List Translator Lists)

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.