

**CLASSIFICATION:** 09 65 00

**PRODUCT DESCRIPTION:** Kingdomfloor WPC (7.5mm) vinyl flooring is made with attached waterproof cork underlay. Installation couldn't be easier with the patented Valinge 5G premium locking system. This product is 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**

**WPC (7.5MM) [ CALCIUM CARBONATE BM-3 POLYVINYL CHLORIDE (PVC) LT-P1 | RES QUERCUS SUBER BARK – CORK NoGS POLYETHYLENE LT-UNK 1,1'-AZOBIS(FORMAMIDE) LT-UNK | RES SODIUM BICARBONATE LT-P1 | END BIS(2-ETHYLHEXYL) TEREPHTHALATE BM-3 DIOCTYL TEREPHTHALATE (DOTP) NoGS PROPANOL, [(1-METHYL-1,2-ETHANEDIYL)BIS(OXY)]BIS-, POLYMER WITH 1,1'-METHYLENEBIS[ISOCYANATOBENZENE] AND OXYBIS[PROPANOL] LT-UNK CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK ZINC STEARATE LT-P1 APEX 4 LT-UNK SODIUM HYDROXIDE LT-P1 | SKI | PHY GLYCERYL MONOSTEARATE LT-UNK TALC BM-1 | CAN STEARIC ACID LT-P1 | END ]**

Number of Greenscreen BM-4/BM3 contents ... 2  
Contents highest concern GreenScreen Benchmark or List translator Score ... BM-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 ppm 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?

- Yes
- No

PREPARER: ToxServices LLC  
VERIFIER: SCS Global Services  
VERIFICATION #: qGE-6371

SCREENING DATE: 2019-03-29  
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](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

### WPC (7.5MM)

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

#: 42.97 - 43.07

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

#: 36.28 - 36.28

GS: LT-P1

RC: None

NANO: No

ROLE: PVC Resin, Wear Layer and Film Component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagen

Asthmagen (Rs) - sensitizer-induced

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

#### QUERCUS SUBER BARK – CORK

ID: 61789-98-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-29

#: 10.66 - 10.66

GS: NoGS

RC: None

NANO: No

ROLE: Bark 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		
%: 9.61 - 9.80	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.				

**1,1'-AZOBIS(FORMAMIDE)**

ID: 123-77-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-03-29		
%: 2.13 - 2.13	GS: LT-UNK	RC: None	NANO: No	ROLE: Anti-Foaming Agent Component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled		
SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.				

**SODIUM BICARBONATE**

ID: 144-55-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-03-29		
%: 2.13 - 2.13	GS: LT-P1	RC: None	NANO: No	ROLE: Anti-Foaming Agent 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.				

**BIS(2-ETHYLHEXYL) TEREPHTHALATE**

ID: 6422-86-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-03-29		
%: 1.73 - 1.73	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**

%: **1.59 - 1.59** 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.

### PROPANOL, [(1-METHYL-1,2-ETHANEDIYL)BIS(OXY)]BIS-, POLYMER WITH 1,1'-METHYLENEBIS[ISOCYANATOBENZENE] AND OXYBIS[PROPANOL]

ID: 68092-58-0

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

%: **1.45 - 1.45** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Cork 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**

%: **0.69 - 0.69** 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.

### ZINC STEARATE

ID: 557-05-1

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

%: **0.46 - 0.46** 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.

#### APEX 4

ID: 123-95-5

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2019-03-29</b>		
#: <b>0.20 - 0.20</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Lubricant Component</b>
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.

#### SODIUM HYDROXIDE

ID: 1310-73-2

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2019-03-29</b>		
#: <b>0.12 - 0.12</b>	GS: <b>LT-P1</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Stabilizer Component</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage		
PHYSICAL HAZARD (REACTIVE)	Korea - GHS	H290 - May be corrosive to metals		

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

#### GLYCERYL MONOSTEARATE

ID: 123-94-4

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2019-03-29</b>		
#: <b>0.10 - 0.20</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>IXPE Component</b>
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.

#### TALC

ID: 14807-96-6

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2019-03-29</b>		
#: <b>0.07 - 0.10</b>	GS: <b>BM-1</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>IXPE Component</b>

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
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. The GreenScreen® Benchmark assessment score of BM-1 was provided through the HPD 2.1 Builder Tool.

**STEARIC ACID**

ID: 57-11-4

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2019-03-29</b>			
%: <b>0.00 - 0.74</b>	GS: <b>LT-P1</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Stabilizer Component</b>

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.

## 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.scscertified.com/products/cert\\_pdfs/ZhejiangKingdom\\_2018\\_SCS-FS-03218\\_s2.pdf](https://www.scscertified.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; 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.scscertified.com/products/cert\\_pdfs/ZhejiangKingdomPlastics\\_2018\\_SCS-RF-05179\\_s.pdf](https://www.scscertified.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.scscertified.com/products/cert\\_pdfs/SCS-EPD-05047\\_KingdomFloor\\_071618.pdf](https://www.scscertified.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 0.14% (1,400 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**  
 ADDRESS: **No.38 Desheng Road**  
**Heshan Town, Tongxiang City, Jiangxing City**  
**Zhejiang Province 314512, China**  
 WEBSITE: **www.kingdomflooring.com.cn**

CONTACT NAME: **Customer Support**  
 TITLE: **Customer Support**  
 PHONE: **+86-573-89383298**  
 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

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

### GreenScreen (GS)

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