



HPD UNIQUE IDENTIFIER: 300538400768
CLASSIFICATION: 09 65 16.23 Vinyl Sheet Flooring
PRODUCT DESCRIPTION: Homogeneous vinyl flooring has a uniform structure and composition throughout the entire thickness of the floor, creating a true through-pattern construction. In aseptic spaces that require infection control protocols, heat welding and flash coving is recommended. The top covering is Diamond 10®Technology which provides an enhanced level of performance standing up to commercial demands such as heavy traffic and staining to keep floors beautiful for years to come.

Section 1: Summary Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold Level	Residuals/Impurities Evaluation	<i>For all contents above the threshold, the manufacturer has:</i>
☐ Nested Materials Method	☐ 100 ppm	☒ Completed	Characterized ☒ Yes ☐ No
☒ Basic Method	☒ 1,000 ppm	☐ Partially Completed	<i>Provided weight and role.</i>
Threshold Disclosed Per	☐ Per GHS SDS	☐ Not Completed	Screened ☒ Yes ☐ No
☐ Material	☐ Other	Explanation(s) provided :	<i>Provided screening results using HPDC-approved methods.</i>
☒ Product		☒ Yes ☐ No	Identified ☐ Yes ☒ No
			<i>Provided name and CAS RN or other identifier.</i>

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

HOMOGENEOUS SHEET [POLYVINYL CHLORIDE LT-P1] MAM
CALCIUM CARBONATE BM-3 EYE BIS(2-ETHYLHEXYL)
TEREPHTHALATE BM-3dg EPOXIDIZED SOYBEAN OIL LT-P1 AQU
DAKRIL 4B LT-UNK UNDISCLOSED LT-UNK WATER BM-4 CALCIUM
CARBONATE IMPURITIES MAGNESIUM OXIDE BM-3dg CAN | MAM
UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK MAM]

Number of Greenscreen BM-4/BM3 contents ... 4
Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special Conditions applied: [GeologicalMaterial]
Special Conditions applied: [Polymers]

Armstrong Flooring (China) worked with the HPDC Approved Preparer to confirm that all intentionally added ingredients, 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. Proprietary information was required from some of client's suppliers to properly complete the HPD, therefore some of the substance entries have been undisclosed to protect information gathered under supplier NDAs.

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: CDPH Standard Method - Not tested
EPD: Environmental Product Declaration
CFP-CTC: Product Carbon Footprint Certification
VOC and Formaldehyde Testing: VOC and Formaldehyde Testing

CONSISTENCY WITH OTHER PROGRAMS

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

Third Party Verified?

☒ Yes
☐ No

PREPARER: ToxServices LLC
VERIFIER: SCS Global Services
VERIFICATION #: qGE-23036

SCREENING DATE: 2025-03-04
PUBLISHED DATE: 2025-03-04
EXPIRY DATE: 2028-03-04

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 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

HOMOGENEOUS SHEET

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: Armstrong Flooring (China) worked with the 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:

POLYVINYL CHLORIDE				ID: 9002-86-2	
HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2025-03-04 00:54:33		
%, 42.0000 - 42.0000	GreenScreen: LT-P1	RC: None	NANO: No	POLYMER ROLE: Structure component	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
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		H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
RESTRICTED LIST	Perkins+Will (P+W)		P&W - Precautionary List		
			Precautionary list of substances recommended for avoidance		
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)		C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022		
			Core Restrictions		
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)		C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024		
			Avoidance of Organohalogens and Functionally Related Chemical Classes of Concern		
RESTRICTED LIST	International Living Future Institute (ILFI)		Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective February 1, 2025		
			Red List substances to avoid in Living Building Challenge V4.0 projects		
POLYMER TYPE: Thermoplastic					
AVERAGE MOLECULAR WEIGHT : >10,000 Da					

PERCENTAGE OF POLYMER WITH MOLECULAR WEIGHT LESS THAN 500 DA: Unknown

ADDITIONAL SUBSTANCES CONSIDERED: Yes

POLYMER NOTES: This polymer has been reported in accordance to [HPDC Special Conditions Policy](#) for polymers with disclosed CAS numbers.

ADDITIONAL NOTES:

CALCIUM CARBONATE ID: **471-34-1**

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2025-03-04 0:54:31		
%: 39.0000 - 40.0000	GreenScreen: BM-3	RC: None	NANO: No	SUBSTANCE ROLE: Tensile strength additive	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
EYE	GHS - New Zealand		Eye irritation category 2		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
None found			No listings found on Additional Hazard Lists		
SUBSTANCE NOTES: The GreenScreen® Benchmark Score of BM-3 comes from the HPDC Builder Tool.					

BIS(2-ETHYLHEXYL) TEREPHTHALATE				ID: 6422-86-2
HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2025-03-04 0:54:31	
%: 13.9860 - 13.9860	GreenScreen: BM-3dg	RC: None	NANO: No	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No warnings found on HPD Priority Hazard Lists	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Green Science Policy Institute (GSPI)		GSPI - Six Classes Precautionary List	
			Some Solvents	
SUBSTANCE NOTES: The GreenScreen® Benchmark Score of BM-3dg comes from the HPDC Builder Tool.				

EPOXIDIZED SOYBEAN OIL				ID: 8013-07-8
HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2025-03-04 0:54:32	
%: 1.9998 - 1.9998	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
AQU	GHS - New Zealand		Hazardous to the aquatic environment - chronic category 2	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No listings found on Additional Hazard Lists	

SUBSTANCE NOTES:

DAKRIL 4B

ID: 25852-37-3

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-03-04 00:54:33		
%: 0.9900 - 1.0000	GreenScreen: LT-UNK	RC: None	NANO: No	POLYMER ROLE: Processing regulator
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	
POLYMER TYPE: Thermoplastic				
AVERAGE MOLECULAR WEIGHT : >10,000 Da				
PERCENTAGE OF POLYMER WITH MOLECULAR WEIGHT LESS THAN 500 DA: Unknown				
ADDITIONAL SUBSTANCES CONSIDERED: Yes				
POLYMER NOTES: This polymer has been reported in accordance to HPDC Special Conditions Policy for polymers with disclosed CAS numbers.				
ADDITIONAL NOTES:				

UNDISCLOSED

ID: Undisclosed

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2025-03-04 0:54:32		
%: 0.5000 - 0.5000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer	
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 HPDC Approved Preparer obtained full disclosure down to the 1,000 ppm threshold for the trade name ingredient containing this chemical. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance. 1					

WATER

ID: 7732-18-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2025-03-04 0:54:33		
%: 0.4070 - 0.4070	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Solvent	
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 Exempted from REACH Annex IV listing due to intrinsic safety

SUBSTANCE NOTES: The GreenScreen® Benchmark Score of BM-4 comes from the HPDC Builder Tool.

CALCIUM CARBONATE IMPURITIES

ID: Geological Material

HAZARD DATA SOURCE: HPDC Special Conditions Policy				
%: 0.4000 - 0.4000	GreenScreen: Not Required	RC: None	NANO: No	MATERIAL ROLE: Tensile strength additive
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
Hazard Screening is not applicable to this Special Condition				
INGREDIENT DESCRIPTION AND COMPOSITION: Composes 1% of calcium carbonate ingredient				
COUNTRY OF ORIGIN: China				
RADIOACTIVE ELEMENTS: Unknown				
POTENTIAL PRESENCE OF TOXIC METALS: Unknown				

MATERIAL CONTENT NOTES: This disclosure does not provide potential presence of radioactive elements which may be found in certain geological materials.
This disclosure does not provide potential presence of toxic metals which may be found in certain geological materials.

MAGNESIUM OXIDE

ID: 1309-48-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2025-03-04 0:54:31	
%: 0.2000 - 0.2000	GreenScreen: BM-3dg	RC: None	NANO: No	SUBSTANCE ROLE: Tensile strength additive
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
CAN	MAK		Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels	
MAM	GHS - Japan		H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No listings found on Additional Hazard Lists	

SUBSTANCE NOTES: The GreenScreen® Benchmark Score of BM-3dg comes from the HPDC Builder Tool.

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2025-03-04 0:54:32	
?: 0.1800 - 0.1800	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer
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 HPDC Approved Preparer obtained full disclosure down to the 1,000 ppm threshold for the trade name ingredient containing this chemical. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance. 2				

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2025-03-04 0:54:32	
%: 0.1067 - 0.1067	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MAM	GHS - Japan		H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found		No listings found on Additional Hazard Lists		
SUBSTANCE NOTES: The HPDC Approved Preparer obtained full disclosure down to the 1,000 ppm threshold for the trade name ingredient containing this chemical. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance. 3				

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	CDPH Standard Method - Not tested	
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: All facilities CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES:	ISSUE DATE: 2025-01-22 00:00:00 EXPIRY DATE:	CERTIFIER OR LAB: None
EPD	Environmental Product Declaration	
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES:	ISSUE DATE: 2024-07-26 00:00:00 EXPIRY DATE: 2029-07-26 00:00:00	CERTIFIER OR LAB: UI Solutions
CFP-CTC	Product Carbon Footprint Certification	
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES:	ISSUE DATE: 2024-06-03 00:00:00 EXPIRY DATE: 2029-06-02 00:00:00	CERTIFIER OR LAB: China National Testing Holding Group Co., Ltd.
VOC AND FORMALDEHYDE TESTING	VOC and Formaldehyde Testing	
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: VOC and formaldehyde emission tests are conducted according to ISO 16000-3, 6 & 9 standards, and evaluated according to AgBB/ DiBt requirements.	ISSUE DATE: 2021-04-21 00:00:00 EXPIRY DATE:	CERTIFIER OR LAB: TUV Rheinland
EPD-CTC	Type III Environmental Declaration Certificate	
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES:	ISSUE DATE: 2024-06-03 00:00:00 EXPIRY DATE: 2029-06-02 00:00:00	CERTIFIER OR LAB: China National Testing Holding Co., Ltd,

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

Armstrong Flooring (China) worked with the HPDC Approved Preparer to confirm that all intentionally added ingredients, 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.

MANUFACTURER INFORMATION

MANUFACTURER: **Armstrong Advanced Flooring (China) Co., Ltd.**
ADDRESS: **No. 683 Yue Xiu Road, FOHO, Wujiang District**
Suzhou, Jiangsu 215211
COUNTRY: **China**

WEBSITE: **<https://www.armstrongflooring.cn/>**
CONTACT NAME: **Qiuping Tu**
TITLE: **HPD Contact**
PHONE: **15895487205**
EMAIL: **qtu@armstrongflooring.cn**

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	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible 1 (Possible Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS No GreenScreen.
BM-U Benchmark Unspecified (due to insufficient data)	

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

