

Acoustic Tile (5t); Looselay Tile (Rubber Sheet Type 4.5t & 5t) (Velvet Sheet Type 5t) by DAEJIN CO. LTD.

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 09 65 19.23 Vinyl Tile Flooring

PRODUCT DESCRIPTION: Experience beautiful Loose Lay tile with convenience of installation. Loose Lay Tile shows DECORIA's values that cares about the environment. Style your home with the natural elegance of wood specialized technology of "Acoustic" function. Sounds can be stressful in our environment, so DECORIA Acoustic is the key when it comes to reduce the noise between the stories in any residential places.

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 except SC substances characterized according to SC guidance.

Screened Yes Ex/SC Yes No

All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.

Identified Yes Ex/SC Yes No

All substances disclosed by Name (Specific or Generic) and Identifier except SC substances identified according to SC guidance.

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

ACOUSTIC TILE (5T); LOOSELAY TILE (RUBBER SHEET TYPE 4.5T & 5T) (VELVET SHEET TYPE 5T) [CALCIUM CARBONATE BM-3 SC:RECYCLED PVC Not Screened POLYVINYL CHLORIDE (PVC) LT-P1 | RES BIS(2-ETHYLHEXYL) TEREPHTHALATE BM-3 DIISONONYL PHTHALATE (DINP) (POST-CONSUMER) LT-1 | CAN | DEL | MUL | END | REP CARBON BLACK LT-1 | CAN LIMESTONE, CALCIUM CARBONATE LT-UNK 1,4-BENZENEDICARBOXYLIC ACID, MIXED BU AND 2-ETHYLHEXYL DIESTERS NoGS DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC LT-1 | CAN | MUL 2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE LT-UNK FERRIC OXIDE BM-2 | CAN ETHYLBENZENE NoGS 2,2'-(3,3'-DICHLORO(1,1'-BIPHENYL)-4,4'-DIYL)BIS(AZO)BIS(N-(4-C-HORO-2,5-DIMETHOXYPHENYL)-3-OXOBUTYRAMIDE) LT-P1 | MUL STEARIC ACID LT-P1 | END SILICA, AMORPHOUS LT-P1 | CAN]

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:

Special conditions applied: MixedRecycledContent

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

The Daejin team worked with an 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

LCA: 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-6539

SCREENING DATE: 2019-07-19
PUBLISHED DATE: 2019-08-29
EXPIRY DATE: 2022-07-19



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

ACOUSTIC TILE (5T); LOOSELAY TILE (RUBBER SHEET TYPE 4.5T & 5T) (VELVET SHEET TYPE 5T)

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED:
Yes

RESIDUALS AND IMPURITIES NOTES: The Daejin team worked with an 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: The four Daejin tile models that are represented under this HPD are Acoustic Tile (5t); Looselay Tile (Rubber Sheet 4.5t&5t); and Loose Lay Tile (Velvet Sheet Type 5t) which all have both color and design variations dependent on the tile's print layer.

CALCIUM CARBONATE

ID: 471-34-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-19

%: 5.25 - 64.84

GS: BM-3

RC: None

NANO: No

ROLE: Filler; Glass Fiber, Velvet Sheet and Acoustic Sheet Component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The GreenScreen® Benchmark assessment score of BM-3 was provided through the HPD 2.1 Builder Tool. Ranges are due to variances in the thickness of the base layer.

SC:RECYCLED PVC

ID: SC:MixedRC

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-19

%: 1.18 - 17.86

GS: Not Screened

RC: PostC

NANO: No

ROLE: PVC Structure Component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCMixedRC/2018-02-23

Is regular, analytical testing performed on the substance?: Yes

Recycled PVC is subjected to regular specific gravity, hardness, and surface condition testing.

BatchVariation: No

SourceofOrigin: China

Why is there limited information?: Recycled PVC is sourced from reclaimed flooring material from demolished buildings and purchased from several suppliers.

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

POLYVINYL CHLORIDE (PVC)

ID: 9002-86-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-19**

%: **0.91 - 21.39** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **PVC Structure; Pigment; Film; Glass Fiber and Acoustic, ;Rubber, and Velvet Sheet Component**

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

SUBSTANCE NOTES:

BIS(2-ETHYLHEXYL) TEREPHTHALATE

ID: 6422-86-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-19**

%: **0.50 - 7.20** GS: **BM-3** RC: **None** NANO: **No** ROLE: **Plasticizer; Pigment and Rubber Sheet Component**

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

SUBSTANCE NOTES: The GreenScreen® Benchmark assessment score of BM-3 was provided through the HPD 2.1 Builder Tool.

DIISONONYL PHTHALATE (DINP) (POST-CONSUMER)

ID: 68515-48-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-19**

%: **0.14 - 4.16** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Glass Fiber and Velvet Sheet Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Some Evidence of Adverse Effects - Developmental Toxicity
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
ENDOCRINE	ChemSec - SIN List	Endocrine Disruption
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
REPRODUCTIVE	US EPA - PPT Chemical Action Plans	Reproductive effects

SUBSTANCE NOTES:

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-19**

#: **0.01 - 0.60** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Pigment and Rubber Sheet 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:

LIMESTONE, CALCIUM CARBONATE

ID: 1317-65-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-19**

#: **0.01 - 0.63** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pigment and Rubber Sheet Component**

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

SUBSTANCE NOTES:

1,4-BENZENEDICARBOXYLIC ACID, MIXED BU AND 2-ETHYLHEXYL DIESTERS

ID: 1571954-81-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-19**

#: **0.00 - 4.76** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Pigment and Acoustic Sheet Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
SUBSTANCE NOTES:		

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC

ID: 64742-55-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-19	
%: 0.00 - 0.12	GS: LT-1	RC: None	NANO: No ROLE: Stabilizer and Rubber Sheet Component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer	
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man	
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant	
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence	
CANCER	GHS - Australia	H350 - May cause cancer	
SUBSTANCE NOTES:			

2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE

ID: 9003-18-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-19	
%: 0.00 - 0.68	GS: LT-UNK	RC: None	NANO: No ROLE: Rubber Sheet Component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
None found		No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES:			

FERRIC OXIDE

ID: 1309-37-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-19	
%: 0.00 - 0.34	GS: BM-2	RC: None	NANO: No ROLE: Rubber Sheet Component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification	
SUBSTANCE NOTES: The GreenScreen® Benchmark assessment score of BM-2 was provided through the HPD 2.1 Builder Tool.			

ETHYLBENZENE

ID: 178535-25-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-07-19**%: **0.00 - 0.20**GS: **NoGS**RC: **None**NANO: **No**ROLE: **Velvet and Acoustic Sheet Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

2,2'-((3,3'-DICHLORO(1,1'-BIPHENYL)-4,4'-DIYL)BIS(AZO))BIS(N-(4-C-HORO-2,5-DIMETHOXYPHENYL)-3-OXOBUTYRAMIDE)

ID: 5567-15-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-07-19**%: **0.00 - 0.34**GS: **LT-P1**

RC:

None

NANO:

NoROLE: **Rubber Sheet Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 3 - Severe Hazard to Waters

SUBSTANCE NOTES:

STEARIC ACID

ID: 57-11-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-07-19**%: **0.00 - 0.34**GS: **LT-P1**RC: **None**NANO: **No**ROLE: **Rubber Sheet Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES:

SILICA, AMORPHOUS

ID: 7631-86-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-07-19**%: **0.00 - 0.34**GS: **LT-P1**RC: **None**NANO: **No**ROLE: **Rubber Sheet Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER

GHS - Japan

Carcinogenicity - Category 1A

CANCER

GHS - Australia

H350i - May cause cancer by inhalation

SUBSTANCE NOTES:

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.scscertified.com/products/cert_pdfs/Daejin_2018_SCS-FS-03041_s4.pdf

ISSUE DATE:

2018-09-01

EXPIRY DATE:

2019-08-31

CERTIFIER OR LAB: **SCS**

Global Services

CERTIFICATION AND COMPLIANCE NOTES: **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. Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5 mg/m3 (in compliance with CDPH/EHLB Standard Method v1.2-2017) Registration #SCS-FS-043041.**

LCA

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-05493_Daejin_DecoriaTile_042319.pdf

ISSUE DATE: **2019-04-23**

EXPIRY DATE: **2024-04-22**

CERTIFIER OR LAB: **SCS Global**

CERTIFICATION AND COMPLIANCE NOTES: **SCS-EPD-05493; 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

The Daejin team worked with an 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. For this current HPD, the Special Condition Mixed Recycled Content was used.



MANUFACTURER INFORMATION

MANUFACTURER: **DAEJIN CO. LTD.**
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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.