

CLASSIFICATION: 09 65 19 23

created via: HPDC Online Builder

PRODUCT DESCRIPTION: This HPD Covers the Ilshin LVT (Luxury Vinyl Tile) model lines of Loose Lay LVT, Click LVT, and Dryback. Ilshin LVT model lines of Loose Lay LVT, Click LVT and Dryback LVT are Phthalate free with recycled raw material compositions for commercial & residential use. Easy to maintain and excellent durability.

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

Are All Substances Above the Threshold Indicated:

Characterized Yes No
Percent Weight and Role Provided?

Screened Yes No
Using Priority Hazard Lists with Results Disclosed?

Identified Yes No
Name and Identifier Provided?

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.

Number of Greenscreen BM-4/BM3 contents..... 1
Contents highest concern GreenScreen Benchmark or List translator Score..... LT-P1
Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

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

ACEFLOOR LVT [LIMESTONE; CALCIUM CARBONATE (CALCIUM CARBONATE, NATURAL) **LT-UNK** PVC SCRAP POWDER **LT-P1** | RES POLYVINYL CHLORIDE (PVC) (POLYVINYL CHLORIDE (PVC)) **LT-P1** | RES PVC SCRAP CHIPS **LT-P1** | RES BIS(2-ETHYLHEXYL) TEREPHTHALATE (BIS(2-ETHYLHEXYL) TEREPHTHALATE) **BM-3** BARIUM DISTEARATE (CALCIUM DISTEARATE) **LT-UNK** ZINC STEARATE (ZINC STEARATE) **LT-P1** 2-(ACRYLOYLOXY)ETHANOL (2-(ACRYLOYLOXY)ETHANOL) **LT-P1** | MAM | SKI | AQU | MUL TRIPROPYLENE GLYCOL DIACRYLATE (TRIPROPYLENE GLYCOL DIACRYLATE) **LT-P1** | EYE | SKI | AQU | MUL CALCIUM STEARATE (CALCIUM STEARATE) **LT-UNK** PARAFFIN (PARAFFIN) **LT-UNK**]

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

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared
VERIFIER: SCS Global Services
VERIFICATION #: qGE-3106

SCREENING DATE: 2018-01-17
PUBLISHED DATE: 2018-01-18
EXPIRY DATE: 2021-01-17

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

ACEFLOOR LVT

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Ilshin worked with the Third Party Preparer, ToxServices, to confirm that all residuals and impurities have been considered under this HPD. ToxServices worked with Ilshin suppliers to verify full disclosure on residual/impurities that may be present in the final formulation at 1,000 ppm or >. Per the supplier disclosure, ToxServices determined that no residuals or impurities are present in the final Ilshin formulation at > 1,000 ppm.

OTHER PRODUCT NOTES:

LIMESTONE; CALCIUM CARBONATE (CALCIUM CARBONATE, NATURAL)

ID: 1317-65-3

#: 40.7284 - 40.7284 GS: LT-UNK RC: None NANO: No ROLE: Calcium Carbonate

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

PVC SCRAP POWDER

ID: 9002-86-2

#: 29.3500 - 36.8300 GS: LT-P1 RC: None NANO: No ROLE: Recycled PVC

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES:

POLYVINYL CHLORIDE (PVC) (POLYVINYL CHLORIDE (PVC))

ID: 9002-86-2

#: 17.2282 - 17.2282 GS: LT-P1 RC: None NANO: No ROLE: Structure

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES:

PVC SCRAP CHIPS

ID: 9002-86-2

%: 12.6100 - 24.6900	GS: LT-P1	RC: None	NANO: No	ROLE: Recycled PVC
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
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SUBSTANCE NOTES:

BIS(2-ETHYLHEXYL) TEREPHTHALATE (BIS(2-ETHYLHEXYL) TEREPHTHALATE)

ID: 6422-86-2

%: 3.1750 - 5.4237	GS: BM-3	RC: None	NANO: No	ROLE: Plasticizer
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: The GreenScreen Score of Benchmark 3 was assessed by the the CPA GreenScreen Profiler, ToxServices LLC, and was given to Healthy Building Network for them to use in their Pharos online tool.

BARIUM DISTEARATE (CALCIUM DISTEARATE)

ID: 6865-35-6

%: 0.0980 - 0.3960	GS: LT-UNK	RC: None	NANO: No	ROLE: Stabilizer
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES:

ZINC STEARATE (ZINC STEARATE)

ID: 557-05-1

%: 0.0875 - 0.2304	GS: LT-P1	RC: None	NANO: No	ROLE: Stabilizer
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES:

2-(ACRYLOYLOXY)ETHANOL (2-(ACRYLOYLOXY)ETHANOL)

ID: 818-61-1

%: 0.0774 - 0.1204	GS: LT-P1	RC: None	NANO: No	ROLE: UV Resin
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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MAMMALIAN	EU - R-phrases	R24 - Toxic in Contact with Skin
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SKIN IRRITATION	EU - R-phrases	R34 - Causes burns
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
MAMMALIAN	EU - GHS (H-Statements)	H311 - Toxic in contact with skin
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES:

TRIPROPYLENE GLYCOL DIACRYLATE (TRIPROPYLENE GLYCOL DIACRYLATE)

ID: 42978-66-5

#: **0.0645 - 0.1075** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **UV Resin**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
ACUTE AQUATIC	EU - R-phrases	R51 - Toxic to Aquatic Organisms
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
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
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES:

CALCIUM STEARATE (CALCIUM STEARATE)

ID: 1592-23-0

#: **0.0000 - 0.2160** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Stabilizer**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

#: **0.0000 - 0.1080** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Stabilizer**

HAZARDS: None Found
 AGENCY(IES) WITH WARNINGS: No warnings found on HPD Priority lists

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	ISSUE	EXPIRY DATE:	CERTIFIER OR LAB: SCS
APPLICABLE FACILITIES: 223-14 Cheonui-ri, Jeongmo-myeon Dangjin-si Chungchengnam-do, Republic of Korea	DATE:2017-05-01	2018-04-30	Global Services
CERTIFICATE URL: https://www.scs-certified.com/products/cert_pdfs/IlshinChemical_2017_SCS-FS-03603_s.pdf			
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-03603			

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

Ilshin worked with the Third Party Preparer, ToxServices, to confirm that all residuals and impurities have been considered under this HPD. This current HPD covers the following multiple Ilshin product models: Loose Lay LVT; Click LVT, and Dryback.

MANUFACTURER INFORMATION

MANUFACTURER: **ILSHIN CHEMICAL CO.**
ADDRESS: **133 Sanggusil-ro, Jeongmi-myeon**
Dangjin-si Chungcheongnam-do 31800, Korea
WEBSITE: **www.acefloors.co.kr**

CONTACT NAME: **Young C. Yang**
TITLE: **Managing Director**
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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.