



Ilshin Chemical Inc.
Acefloor LVT

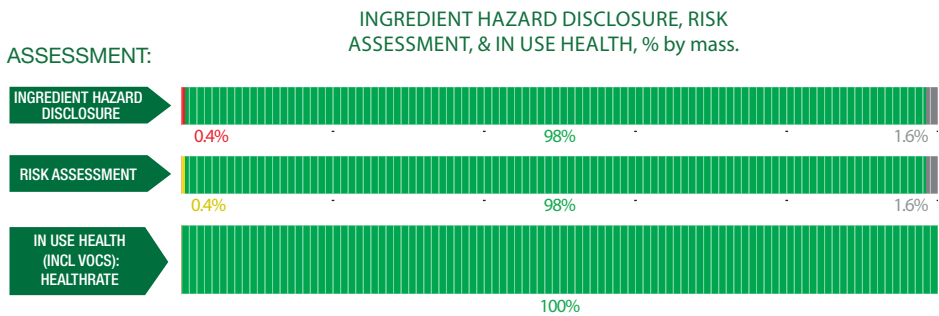
Ilshin Chemical's Acefloor LVT is a range of resilient, durable, versatile luxury vinyl tiles. It is easy to install and maintain and it is available for Loose Lay type, click type and glue-down type.

Products/Ranges:	Acefloor LVT
Product Stages Assessed:	Whole of life +re-use potential
CSI Masterformat:	09 65 19.23 Vinyl Tile Flooring
Licenced Site/s:	Chungcheongnam-do, Korea
Licence Number:	ILS:AC01:2020:PH
Licence Date:	31st December 2019
Valid To:	31st December 2022
Standard:	GGT International v4.0
Screening Date:	13th August 2020
PHD URL:	https://www.globalgreentag.com/wp-content/uploads/2020/10/200827_ILS_Acefloor-LVT_PHD_v2.pdf



PHD Summary	Inventory Threshold:	Inventory Method:
Percentage Assessed: 100%	100ppm Product Level	Nested Materials

- GreenTag Banned List Compliant
- Meets Indoor Air Quality VOC emission requirements, for Green Star, LEED & BREEAM
- Product Meets Optimisation requirements - No Grey or Red Light category ingredient
- Meets USGBC LEED® v4.0 and v4.1 Rating System MR Credit: Building Product Disclosure and Optimisation - Material Ingredients - Option 2 - International ACP - REACH Optimization
- Meets WELL™ v1.0 Features - 11: Fundamental Material - Part 1c, 26: Enhanced Material Safety, 97: Material Transparency and WELL™ v2.0 Features - X01: Fundamental Material Precautions - Part 1c, X10 Volatile Compound Reduction, X13: Enhanced Material Precaution, X14: Material Transparency
- No worker exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors
- No user exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors
- No environmental exposure to Carcinogens, Mutagens, Reproductive Toxicants or Endocrine Disruptors



Declared by:
Global GreenTag
International Pty Ltd

David Baggs
CEO & Program Director
Verified compliant with:
ISO 14024 & ISO 17065

1.0 Scope

The Global GreenTag International (GGT) Product Health Declaration (PHD) has been designed to provide an additional level of service to the green product sector in facilitating an easier understanding of both the hazard and risk associated with any certified products and is intended to indicate:

- Chemical hazards of both finished product and unique ingredients to a minimum level of 100ppm for each homogeneous ingredient throughout the product life cycle, (including any VOC or other gaseous emissions);
- An assessment of exposure or risk associated with ingredient handling, product use, and disposal in relation to established mitigation and management processes;

It is not intended to assess:

- substances used or created during the manufacturing process unless they remain in the final product; or
- substances created after the product is delivered for end use (e.g., if the product unusually degrades, combusts or otherwise changes chemical composition).

GGT PHDs are only issued to products that have passed GGT Standards' certification requirements. The Level of Assessment (BronzeHEALTH, SilverHEALTH, GoldHEALTH or PlatinumHEALTH) rating relates ONLY to GGT Standard Sustainability Assessment Criteria 3, and is declared separately to the overall Bronze, Silver, Gold or Platinum Green Tag Certification Mark Tier Levels.

1.2 Preparing a PHD

GGT PHDs are prepared using Hazard Classifications from the UN Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and as an outcome of a successful Application for Certification. Assessments are undertaken by GGT Qualified Exemplar Global Lead Auditors and subsequently accepted for Certification by the GGT Program Director (also a Qualified Exemplar Global Lead Auditor) under the GGT International Standard v4.0, Personal Products Standard v1.0, and Cleaning Products Standard v1.0 and above Program Rules.

1.3 External Peer Review

Every GGT PHD is independently peer reviewed by an external Consultant Toxicologist and Member of the Australian College of Toxicology & Risk Assessment.

2.0 Declaration of Ingredients

Where a manufacturer wishes recognition under a rating program that requires transparency of ingredients such as LEED v4.0, Living Building Challenge, Estidama etc., the following information is declared from audit:

Colour	Ingredient Name
Green	Ideal- Low No Comment required
Yellow	Medium to Low No Comment, or 'Issue of Concern' required depending on % of ingredient.
Orange	Moderate 'Issue of Concern' or 'Red Light' Comment depending on % of ingredient.
Red	Problematic (Red): Target for Phase 'Issue of Concern' or 'Red Light' Comment depending on % of ingredient.
Grey	Uncategorised Not able to be categorised due to lack of toxicity impact information.
Black	Banned Ingredients POPs, SVHCs plus a wide range of compounds depending on specific Standard requirements

Global GreenTag International Pty Ltd (Global GreenTag) is not a medical professional organisation. Global GreenTag does not purport to provide medical advice, and makes no warranty, representation, or guarantee regarding the declaration that it provides in relation to any allergies, chemical sensitivities or any other medical condition, nor does Global GreenTag assume any liability whatsoever arising out of the application or use of any product or piece of equipment that has been chemically assessed by Global GreenTag.

The chemical assessments carried out provide transparent information peer reviewed by a consultant toxicologist regarding the chemical make-up and ingredients of certain materials and products, but such assessments are not to be taken as any form of medical assessment or health advice and are not targeted towards providing specific solutions to allergenic conditions or any other type of medical concerns.

Users must carry out their own investigations if they are concerned about specific medical conditions and the impact of certain products or ingredients in relation to specific medical concerns.







Global GreenTag takes no responsibility and is not liable in any way with respect to any medical or health issues arising from a person's use of materials or products that have been chemically assessed by Global GreenTag. Global GreenTag shall not be liable for any direct, indirect, punitive, incidental, special or consequential damages to property or life whatsoever, arising out of or connected with the use or misuse of any materials or products that have been assessed by Global GreenTag.

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment (Raw)	Whole Of Life Assessment	In Use Health Assessment	Comment
Material: Calcium Carbonate							
Calcium Carbonate, natural	1317-65-3	30-50%	None				Recycled Content: None Nanomaterials: Unknown
Silicon oxide	14808-60-7	0-5%	None				Recycled Content: None Nanomaterials: Unknown
Proprietary	additives	0-5%	None				Recycled Content: None Nanomaterials: Unknown
Material: PVC power							
recycled PVC scrap powder	9002-86-2	30-40%	None				Recycled Content: Post-Industrial Nanomaterials: No

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment (Raw)	Whole Of Life Assessment	In Use Health Assessment	Comment
Material: PVC power							
recycled PVC scrap powder	9002-86-2	10-20%	*				Recycled Content: Post-I Nanomaterials: No
Material: PVC power							
Chloethylene polymer	9002-86-2	5-10%	H319 (Eye Irrit 2), H315 (Skin Irrit 2), H335 (STOT SE 3), IARC 3				The hazard of IARC Cat. 3 relates to the PVC monomer, which is usually completely converted in the polymerisation process. Test reports of residue monomer less than 1ppm in the material, therefore users are unlikely to be exposed to even minor risks. Recycled Content: None Nanomaterials: No
Dihydrogen oxide	7732-18-5	0-5%	*				Recycled Content: None Nanomaterials: No
Proprietary	additives	0-5%	*				Recycled Content: Unknown Nanomaterials: Unknown
Material: Plasticiser							
Dicotyl terephthalate	6422-86-2	0-10%	*				Recycled Content: Post-C / Post-I / Both or Unknown / None Nanomaterials: Yes / n o / unknown
Proprietary	additives	0-5%	*				Recycled Content: Unknown Nanomaterials: Unknown
Terephthalic acid	100-21-0	0-5%	H319 (Eye Irrit 2), H315 (Skin Irrit 2), H335 (STOT SE 3),				The occupants are only exposed to the upper wear layer. The stabiliser is fully bound into the polymer matrix and cannot be contacted by users. Therefore, there is no risk for users and little to extremely little exposure potential for installers. Recycled Content: None Nanomaterials: No
Material: PVC Stabiliser (option 1)							
Barium distearate	heat stabiliser	0-5%	H302 (Acute Tox. 4), H332 (Acute Tox. 4)				The occupants are only exposed to the UV coating. The stabiliser is fully bound into the polymer matrix and cannot be contacted by users. Therefore there is extremely low exposure potential for installers. Recycled Content: None Nanomaterials: No
Proprietary	additives	0-5%	*				Recycled Content: Unknown Nanomaterials: Unknown
Zinc distearate	heat stabiliser	0-5%	*				Recycled Content: None Nanomaterials: No
Calcium stearate	heat stabiliser	0-5%	*				Recycled Content: None Nanomaterials: No
Paraffin wax	8002-74-2	0-5%	*				Recycled Content: None Nanomaterials: No
Stearic acid	surface modifying agent	0-5%	*				Recycled Content: None Nanomaterials: No
Material: PVC Stabiliser (option 2)							
Proprietary	additives	0-5%	*				Recycled Content: Unknown Nanomaterials: Unknown
Solvent	64742-47-8	0-5%	*				Recycled Content: None Nanomaterials: No
Oleic Acid	112-80-1	0-5%	*				Recycled Content: None Nanomaterials: No
BDG 2-(2-butoxyethoxy) ethan-1-ol	112-34-5	0-5%	H319 (Eye Irrit 2)				The occupants are only exposed to the UV coating. The stabiliser is fully bound into the polymer matrix and cannot be contacted by users. Therefore there is extremely low exposure potential for installers. Recycled Content: None Nanomaterials: No

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment (Raw)	Whole Of Life Assessment	In Use Health Assessment	Comment
PTBBA	98-73-7	0-5%	H302 (Acute tox 4), H372 (STOT RE 1), H360F (Repr 1B), H411 (Aquatic chronic 2)				The occupants are only exposed to the UV coating. The stabiliser is fully bound into the polymer matrix and cannot be contacted by users. Therefore there is extremely low exposure potential for installers Recycled Content: None Nanomaterials: No
Barium hydroxide	12230-71-6	0-5%	H302 (Acute tox 4), H314 (Skin corr 1B), H318 (Eye dam 1), H332 (Acute tox 4)				The occupants are only exposed to the UV coating. The stabiliser is fully bound into the polymer matrix and cannot be contacted by users. Therefore there is extremely low exposure potential for installers Recycled Content: None Nanomaterials: No
Dibenzoylmethane	120-46-7	0-5%	H317 (Skin sens 1)				The occupants are only exposed to the UV coating. The stabiliser is fully bound into the polymer matrix and cannot be contacted by users. Therefore there is extremely low exposure potential for installers Recycled Content: None Nanomaterials: No
Versatic acid	26896-20-8	0-5%	H318 (Eye dam 1), H412 (Aquatic chronic 3)				The occupants are only exposed to the UV coating. The stabiliser is fully bound into the polymer matrix and cannot be contacted by users. Therefore there is extremely low exposure potential for installers Recycled Content: None Nanomaterials: No
Zinc Oxide	1314-13-2	0-5%	H400 (Aquatic acute 1), H410 (Aquatic chronic 1), H360 (Repr 1Aa), H302 (Acute tox 1) H332 (Acute tox 1), H373 (STOT RE 2)				The occupants are only exposed to the UV coating. The stabiliser is fully bound into the polymer matrix and cannot be contacted by users. Therefore there is extremely low exposure potential for installers Recycled Content: None Nanomaterials: No
Benzoic acid	65-85-0	0-5%	H315 (Skin Irrit 2), H318 (Eye dam 1), H302 (Acute tox 4), H372 (STOT RE 2)				The occupants are only exposed to the UV coating. The stabiliser is fully bound into the polymer matrix and cannot be contacted by users. Therefore there is extremely low exposure potential for installers Recycled Content: None Nanomaterials: No
Material: PVC Masterbatch							
Calcium carbonate, natural	1317-65-3	0-5%	*				Recycled Content: None Nanomaterials: No
Di-n-butyl Terephthalate [GL-500] Reaction mass of bis(2-ethylhexyl) terephthalate, butyl 2-ethylhexyl terephthalate, and dibutyl terephthalate	1571954-81-8	0-5%	*				Recycled Content: None Nanomaterials: No
Carbon Black	1333-86-4	0-5%	H351 (Carc 2B), IARC 2B				Carbon black can be harmful when it is inhaled, and it is classified as possibly carcinogenic to humans. However, as the substance is embedded in the product, the hazards will not be present in the final product. Therefore, it is not expected to cause harm to the users. Recycled Content: None Nanomaterials: No
PVC	9002-86-2	0-5%	*				Recycled Content: None Nanomaterials: No
Proprietary	additives	0-5%	*				Recycled Content: Unknown Nanomaterials: Unknown

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment (Raw)	Whole Of Life Assessment	In Use Health Assessment	Comment
Material: UV coating							
Hydroxyethyl acrylate	818-61-1	0-5%	H317 (Skin sens 1), H314 (Skin corr 1B), H400 (Aquatic acute 1), H311 (Acute tox 3), H302 (Acute tox 4), H318 (Eye dam 1), H310 (Acute tox 2), H412 (Aquatic acute 1), H312 (Acute tox 4)				The exposure route of the hazards is dermal contact. Once the photochemical reaction is initiated under ultraviolet light to generate a crosslinked network of polymers, the substance is encapsulated with the solid coating. Therefore the risk level associated with this substance is extremely low for occupants. Recycled Content: None Nanomaterials: No
[[1-Methyl-1, 2-ethanediy] bis[oxy(methyl-2,1-ethanediy)] diacrylate	42978-66-5	0-5%	H319 (Eye irrit 2), H315 (Skin irrit 2), H317 (STOT SE 3), H335 (Skin irrit 2), H411 (Aquatic chronic 2)				The exposure route of the hazards is dermal contact. Once the photochemical reaction is initiated under ultraviolet light to generate a crosslinked network of polymers, the substance is encapsulated with the solid coating. Therefore the risk level associated with this substance is extremely low for occupants. Recycled Content: None Nanomaterials: No
Reactive thinner	reactive thinner (monomer)	0-5%	H311 (Acute tox 4), H314 (Aquatic chronic 3), H317 (Skin sens 1), H400 (Aquatic acute 1)				The exposure route of the hazards is dermal contact. Once the photochemical reaction is initiated under ultraviolet light to generate a crosslinked network of polymers, the substance is encapsulated with the solid coating. Therefore the risk level associated with this substance is extremely low for occupants. Recycled Content: None Nanomaterials: No
2- Propenoic acid 2-phenoxyethyl ester	heat stabiliser	0-5%	H411 (Aquatic chronic 2), H319 (Eye irrit 2), H317 (Skin sens 1), H315 (Skin irrit 2), H335 (STOT SE 3), H361 (repr 2)				The exposure route of the hazards is dermal contact. Once the photochemical reaction is initiated under ultraviolet light to generate a crosslinked network of polymers, the substance is encapsulated with the solid coating. Therefore the risk level associated with this substance is extremely low for occupants. Recycled Content: None Nanomaterials: No
2-Hydroxy-2-methyl-propiofenone	7473-98-5	0-5%	H302 (Acute tox 4), H412 (Aquatic chronic 3), H400 (Aquatic chronic 1), H410 (Aquatic acute 1), H317 (skin sens 1)				The exposure route of the hazards is dermal contact. Once the photochemical reaction is initiated under ultraviolet light to generate a crosslinked network of polymers, the substance is encapsulated with the solid coating. Therefore the risk level associated with this substance is extremely low for occupants. Recycled Content: None Nanomaterials: No
Reactive thinner	reactive thinner (monomer)	0-5%	H319 (Eye irrit 2), H335 (STOT SE 3), H315 (Skin irrit 2), H317 (Sens 1), H411 (Aquatic tox 2)				The exposure route of the hazards is dermal contact. Once the photochemical reaction is initiated under ultraviolet light to generate a crosslinked network of polymers, the substance is encapsulated with the solid coating. Therefore the risk level associated with this substance is extremely low for occupants. Recycled Content: None Nanomaterials: No
2-Propenoic acid 2-ethyl-2-[[[(1-oxo-2-propenyloxy) methyl]-1,3-propanediyl ester	15625-89-5	0-5%	H315 (Skin irrit 2), H317 (Skin sens 1), H319 (Eye irrit 2), H410 (Aquatic chronic 1), H400 (Aquatic acute 1)				The exposure route of the hazards is dermal contact. Once the photochemical reaction is initiated under ultraviolet light to generate a crosslinked network of polymers, the substance is encapsulated with the solid coating. Therefore the risk level associated with this substance is extremely low for occupants. Recycled Content: None Nanomaterials: No

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment (Raw)	Whole Of Life Assessment	In Use Health Assessment	Comment
Benzophenone	119-61-9	0-5%	H373 (STOT RE 2), H400 (Aquatic acute 1), H412 (Aquatic chronic 3), H319 (Eye irrit 2), H315 (Skin irrit 2), H410 (Aquatic chronic 1), H335 (STOT SE 3)				The exposure route of the hazards is dermal contact. Once the photochemical reaction is initiated under ultraviolet light to generate a crosslinked network of polymers, the substance is encapsulated with the solid coating. Therefore the risk level associated with this substance is extremely low for occupants. Recycled Content: None Nanomaterials: No
Silica, vitreous	60676-86-0	0-5%	*				Recycled Content: None Nanomaterials: No

Key: * No GHS H-Statement classification

Comments:

VOC emissions: Global GreenTag International Program Standard v4.0 Carpet and Floor Coverings Supplementary Standard in accordance with requirements of the Green Building of Australia and LEEDv4, as updated from time to time.

VOC content: TVOC mg/m3 for product is less than or equal to 0.5 mg/m3 measured using test method CDPH/EHLB Standard Method v1.2-2017. It achieves FloorScore Indoor Air Quality Certified to SCS-EC 10.3-2014 v4.0. Sample tested by SCS Global Services and the certificate is valid from May 1 2019 to April 30 2020.

