GLOBAL GREEN TAG INTERNATIONAL PTY LTD

PHD™
Product Health Declaration

GLOBAL GREENTAG HEALTH RATE
CERT TM
Platinum HEALTH
trust brands™

Armstrong Flooring™

Timberline Plus and Translations Plus

Armstrong Flooring's Timberline Plus and Translations Plus heterogeneous vinyl sheet ranges feature realistic wood grains, as well as carpet or solid stone looks and is suitable where a High Commercial rating is required. They are easy to clean, require low maintenance and there is no need to apply polish.

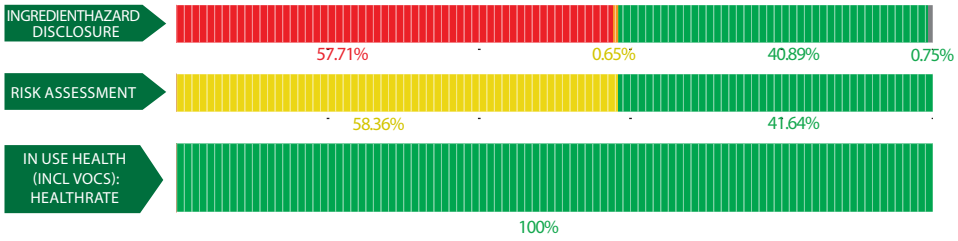
Products/Ranges:	Timberline Plus and Translations Plus
Product Stages Assessed:	Material inputs, Manufacturing, in-use
Product Type:	Resilient Flooring
CSI Masterformat:	TBC
Licenced Site/s:	Sejong, Korea
Licence Number:	AWF:TL01:2024:PH
Licence Date:	29th April 2024
Valid To:	19th September 2024
Standard:	GGT International v4.0
Screening Date:	8th April 2024
PHD URL:	http://www.globalgreentag.com/certificate/2786/

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

- GreenTag Banned List Compliant.
- GreenTag PHD recognized by WELL ® & LEED ® Material Transparency & Optimization credits included below:
- Meets Green Star ® 'Buildings v1.0' ~ Credit 9: Responsible Finishes
- Meets IWBI ® WELL™ v1.0 as Recognized for ~ Feature 26 (Part 1); Feature 97 (Part 1); as a Compliant Technical Document (Audited) for ~ Feature 04 (Part 3); and meets IWBI ® WELL™ v2.0 as Recognized for ~ X07 (Parts 1, 3); X08 (Part 2); as a Compliant Technical Document (Audited) for ~ X06 (Part 2); X07 (Part 2); X08 (Part 1).
- Meets USGBC LEED ® v4.0 and v4.1 Rating Tool Credit as Recognized for MR Credit: Building Product Disclosure and Optimisation - Material Ingredients - Option 1: Material Ingredient Reporting, Option 2: International ACP - REACH Optimisation.
- Independent third party assessment for worker, user, and environmental exposure to any Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors.

INGREDIENT HAZARD DISCLOSURE, RISK ASSESSMENT, & IN USE HEALTH, % by mass.
See over for explanation.

ASSESSMENT:



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 risks 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 final product 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:

i. substances used or created during the manufacturing process unless they remain in the final product; or

ii. 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) of a PHD rating relates ONLY to a Human Health Toxicity Assessment and is declared separately and not equivalent to the overall Bronze, Silver Gold or Platinum Green Tag Certification Mark Tier Levels of LCARate.

1.2 Preparing a PHD

GGT PHDs are prepared in the format of a transparency document which utilizes Hazard Classifications from the UN Globally Harmonised System of Classification and Labelling of Chemicals (GHS). Hazard Classifications are then risk assessed with a focus on the In Use stage for an outcome of 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 International Standard v4.0/4.1, Personal Products Standard v1.0/1.1, or Cleaning Products Standard v1.1/1.2 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 Australasian 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 & v4.1, WELL ® v1.0 & v2.0, Green Star ®, the following information is declared from the audit:

Colour	Ingredient Hazard Disclosure
Green	Level 4 The hazard level of this ingredient indicates that the ingredient has no toxic hazard statements with no identified health effects.
Yellow	Level 3 The hazard level of this ingredient indicates that the ingredient is mildly toxic and/or has short/medium term reversible health effects.
Orange	Level 2 The hazard level of this ingredient indicates that the ingredient is moderately toxic and/or with a moderate health effects.
Red	Level 1 The hazard level of this ingredient indicates that the ingredient is highly toxic with a potential for severe health effects.
Black	Level 0 The hazard level of this ingredient indicates that the ingredient is highly toxic with a potential for severe health effects and is banned from being detectable above trace amounts in the final product.
Grey	Grey Chemical Not able to be categorised due to lack of toxicity impact information.

Colour	Risk Assessment & In Use Health Assessment Outcome
Green	No Concerns The risk assessment outcomes for the hazard level and percentage of ingredient used in the product after risk assessment is considered highly unlikely and therefore without concerns.
Yellow	Human Health Comment The risk assessment outcome for the hazard level and percentage of ingredient used in the product is after risk assessment considered low with an unlikely potential risk.
Orange	Issue of Concern or Issue of Concern Minimised The risk assessment outcome for the hazard level and percentage of ingredient used in the product is after risk assessment considered low to high with a higher than unlikely potential for risk.
Red	Red Light Comment or Red Light Comment Minimised The risk assessment outcome for the hazard level and percentage of ingredient used in the product is after risk assessment considered low to extremely high with a moderate potential for risk.
Dark Red	Red Light Exclusion The risk assessment outcome for the hazard level and percentage of ingredient used in the product is after risk assessment considered medium to extremely high with a likely potential for risk.
Grey	Grey Chemical Not able to be categorised due to lack of toxicity impact information.
Black	Banned Ingredients Level 0 Hazard Level categorised chemicals such as Substances of Very High Concern in the International Standard v4.0/v4.1 and/or Petroleum, Parabens plus a wide range of additional compounds stipulated by the Personal Products Standard v1.0/1.1 and Cleaning Products Standard v1.1/1.2

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	REACH Compliance	Ingredient Assessment	Whole Of Life Assessment	In Use Health Assessment	Comment
Polyvinyl Chloride (PVC)	9002-86-2	30-50%	H319(Eye Irrit. 2) H315(Skin Irrit. 2) H335(STOT SE 3)	OK				PVC casues skin and eye irritation in humans. However, the manufacturer of the product operates under and Environmental Management System and an Occupational Health and Safety System, therefore the risk is considered low. The risk from this substance is minimized as the result of it chemically combined with other substances in the final product. Therefore, it is not expected to casue harm to the users.
DOTP	6422-86-2	15-30%	None	OK				Recycled Content: None Nanomaterials: No
Calcium carbonate	1317-65-3	15-30%	H315(Skin Irrit. 2) H318(Eye Dam. 1) H319(Eye Irrit. 2) H335(STOT SE 3) H350(Carc. 1B) H372(STOT RE1)	OK				This substance causes serious eye damage, causes skin irritation and may cause respiratory irritation. However, the manufacturer of the product operates under Environmental Management System and an Occupational Health and Safety System, therefore, the risk is considered low. The risk from this substance is minimized as the result of it chemically combined with other substances in the final product. Therefore, it is not expected to cause harm to the end-users. Recycled Content: None Nanomaterials: No
Stabiliser (Ba-Zn organic liquid complex)								
Fatty acids, C8-18 and C18-unsatd., barium salts	68876-83-5	0.01-1%	H302(Acute Tox. 4 Oral) H332(Acute Tox. 4 Inhalation)	OK				This substance is harmful if swallowed. However, the manufacturer of the product operates under Environmental Management System and an Occupational Health and Safety System, therefore, the risk is considered low. The risk from this substance is minimized as the result of it chemically combined with other substances in the final product. Therefore, it is not expected to cause harm to the end-users Recycled Content: None Nanomaterials: No
Fatty acids, C8-18 and C18-unsatd., zinc salts	67762-34-9	0.01-1%	H400(Aquatic Acute 1)	OK				This substance is toxic to aquatic life with long lasting effects and may cause an allergic skin reaction. However, the manufacturer of the product operates under Environmental Management System and an Occupational Health and Safety System, therefore, the risk is considered low. The risk from this substance is minimized as the result of it chemically combined with other substances in the final product. Therefore, it is not expected to cause harm to the end-users. Recycled Content: None Nanomaterials: No

Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.]	64742-55-8	0.01-1%	H350(Carc. 1B)	OK				This substance may cause cancer. However, the manufacturer of the product operates under Environmental Management System and an Occupational Health and Safety System, therefore, the risk is considered low. The risk from this substance is minimized as the result of it chemically combined with other substances in the final product. Therefore, it is not expected to cause harm to the end-users. Recycled Content: None Nanomaterials: No
Triisodecyl phosphite	25448-25-3	0.01-1%	H317(Skin Sens. 1)	OK				This substance may cause an allergic skin reaction.However, the manufacturer of the product operates under Environmental Management System and an Occupational Health and Safety System, therefore, the risk is considered low. The risk from this substance is minimized as the result of it chemically combined with other substances in the final product. Therefore, it is not expected to cause harm to the end-users Recycled Content: None Nanomaterials: No
Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate)	6683-19-8	0.01-1%	None	OK				Recycled Content: None Nanomaterials: No
Glass Fiber								
Glass, oxide, chemicals	65997-17-3	1-5%	H350(Carc. 1B)	OK				This substance may cause cancer. However, the manufacturer of the product operates under Environmental Management System and an Occupational Health and Safety System, therefore, the risk is considered low. The risk from this substance is minimized as the result of it chemically combined with other substances in the final product. Therefore, it is not expected to cause harm to the end-users. Recycled Content: None Nanomaterials: No
Pulp, cellulose	65996-61-4	0.01-1%	None	OK				Recycled Content: None Nanomaterials: No
Ethenol, homopolymer	9002-89-5	0.01-1%	IARC 3 H371(STOT SE2) H302(Acute Tox. 4 Oral)	OK				This substance is suspected of causing cancer. However, the manufacturer of the product operates under Environmental Management System and an Occupational Health and Safety System, therefore, the risk is considered low. The risk from this substance is minimized as the result of it chemically combined with other substances in the final product. Therefore, it is not expected to cause harm to the end-users. Recycled Content: None Nanomaterials: No

Butyl acrylate, polymer with 2-ethylhexyl acrylate, methyl methacrylate and acrylic acid	42398-14-1	0.01-1%	None	OK				Recycled Content: None Nanomaterials: No
UV Coating								
2-hydroxyethyl acrylate	818-61-1	0.01-1%	H311(Acute Tox. 3) H314(Skin Corr. 1B) H317(Skin Sens. 1) H400(Aquatic Acute 1)	OK				This substance is toxic in contact with skin, causes severe skin burns and eye damage, is very toxic to aquatic life and may cause an allergic skin reaction.However, the manufacturer of the product operates under Environmental Management System and an Occupational Health and Safety System, therefore, the risk is considered low. The risk from this substance is minimized as the result of it chemically combined with other substances in the final product. Therefore, it is not expected to cause harm to the end-users. Recycled Content: None Nanomaterials: No
acrylic acid, monoester with propane-1,2-diol"	25584-83-2	0.01-1%	H311(Acute Tox. 3) H314(Skin Corr. 1B) H317(Skin Sens. 1)	OK				This substance causes serious eye damage and is harmful to aquatic life with long lasting effects.However, the manufacturer of the product operates under Environmental Management System and an Occupational Health and Safety System, therefore, the risk is considered low. The risk from this substance is minimized as the result of it chemically combined with other substances in the final product. Therefore, it is not expected to cause harm to the end-users. Recycled Content: None Nanomaterials: No
2-ethyl-2-[[(1-oxoallyl) oxy] methyl]-1,3-propanediyl diacrylate; 2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	0.01-1%	IARC 2B H351(Carc. 2) H315(Skin Irrit. 2) H319(Eye Irrit. 2) H317(Skin Sens. 1) H400(Aquatic Acute 1)	OK				This substance is very toxic to aquatic life, is very toxic to aquatic life with long lasting effects, causes serious eye irritation, is suspected of causing cancer, causes skin irritation and may cause an allergic skin reaction. However, the manufacturer of the product operates under Environmental Management System and an Occupational Health and Safety System, therefore, the risk is considered low. The risk from this substance is minimized as the result of it chemically combined with other substances in the final product. Therefore, it is not expected to cause harm to the end-users. Recycled Content: None Nanomaterials: No
Proprietary Substance	UV Coating	0.01-1%	None	OK				Recycled Content: None Nanomaterials: No
Dispersion additive								
2-[2-(2-butoxyethoxy) ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether; butoxytriethylene glycol	143-22-6	0.01-1%	H318(Eye Dam. 1)	OK				This substance causes serious eye damage. However, the manufacturer of the product operates under Environmental Management System and an Occupational Health and Safety System, therefore, the risk is considered low. The risk from this substance is minimized as the result of it chemically combined with other substances in the final product. Therefore, it is not expected to cause harm to the end-users. Recycled Content: None Nanomaterials: No

Proprietary Substance	Additive	0.01-1%	None	OK				Recycled Content: None Nanomaterials: No
Pigment								
Titanium dioxide	13463-67-7	0.01-1%	H351(Carc. 2)	OK				Titanium dioxide can be harmful when it is inhaled, and it is classified a possible carcinogenic to humans. However, as the substance is encapsulated in the product, the hazards will be not present in the final product. Therefore, it is not expected to cause harm to the end-users. Recycled Content: None Nanomaterials: No
Proprietary Substance	Additive	0.01-1%	None	OK				Recycled Content: None Nanomaterials: No

Comments:

VOC emissions: TVOC emission rate is 0.029mg/m2/hr (within the benchmark limit less than 0.5mg/m2/hr) use test method ASTM D5116-17 "Standard Guide for Small-Scale" Environmental Chamber Determinations of Organic Emissions from Indoor Material/Products". Tested by FORAY Laboratories (NATA Accreditation 1231) in September 2020.

Formaldehyde emissions: formaldehyde emission rate is 0.015mg/m2/hr (within the benchmark limit less than 0.1mg/m2/hr) use test method ASTM D5116-17. Tested by FORAY Laboratories (NATA Accreditation 1231) in September 2020.