

PHD™

Product Health Declaration



Armstrong Flooring™

Rejuvenations Plus & Rejuvenations

Armstrong Flooring's Rejuvenations™ Plus features a range of modern and luxurious stone and carpet visuals fit for a range of commercial settings. The adaptable flooring designs ensure there is a design and tone to complement any commercial space, while the benefits of heterogeneous vinyl sheet provide practicality and low maintenance for long-term wear.

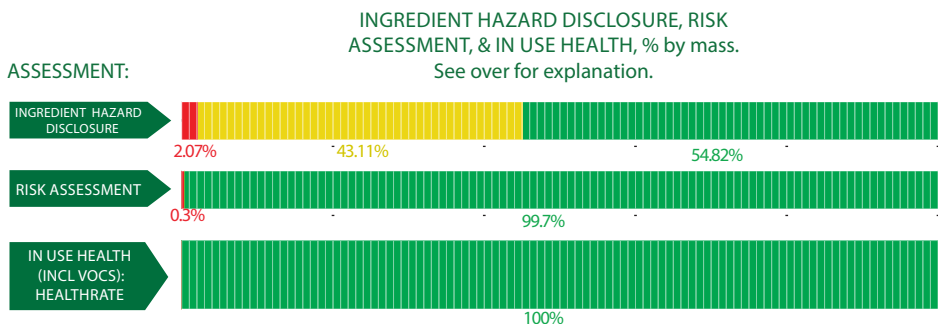
All new Rejuvenations™ from Armstrong Flooring offers a range of low maintenance wood look Heterogeneous Vinyl Sheet Flooring, with P3 & R10 Slip Resistance and a 0.55mm High Performance Wear Layer. The combination of a warm, natural timber look and ease of maintenance makes Rejuvenations ideal for aged and health care facilities, educational, retail, and residential environments.

Products/Ranges:	Rejuvenations Plus & Rejuvenations
Product Stages Assessed:	Material inputs, Manufacturing, in-use
Product Type:	Resilient Flooring
CSI Masterformat:	TBC
Licenced Site/s:	Ulsan, Korea
Licence Number:	AWF:RE01:2022:PH
Licence Date:	3rd August 2022
Valid To:	3rd August 2024
Standard:	GGT International v4.0
Screening Date:	28th July 2022
PHD URL:	https://www.globalgreentag.com/getfile/13104/phd.pdf



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' as Recognized for~ 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); Feature 11 (Part 1); Feature 25 (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 ~ X01 (Part 1, 2, 3); X05 (Part 2); 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.



Declared by:
Global GreenTag
International Pty Ltd

David Baggs
CEO

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:

- 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) 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

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	REACH Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Hydroxy Propyl Acrylate	25584-83-2	<1%	H314(Skin Corr. 1B) H331(Acute Tox. 3) H311(Acute Tox. 3) H301(Acute Tox. 3) H317(Skin Sens. 1) H318(Eye Dam. 1) H412(Aquatic Chronic 3) H302(Acute Tox. 4) H312(Acute Tox. 4)	OK				Recycled Content: None Nanomaterials: No This substance is toxic if swallowed, is toxic in contact with skin, causes severe skin burns and eye damage, is toxic if inhaled and may cause an allergic skin reaction. However, the substance is chemically modified via polymerisation to form an inert polymer in combination with other ingredients. Manufacture has OHS and EMS in place.
Polyethylene Glycol MonoAcrylate	26403-58-7	<0.1%	H315(Skin Irrit. 2) H319(Eye Irrit. 2)	OK				Recycled Content: None Nanomaterials: No
Glycerine(PO)3 Triacrylate	52408-84-1	<0.1%	H319(Eye Irrit. 2) H317(Skin Sens. 1)	OK				Recycled Content: None Nanomaterials: No
Acrylated Oligomer	UV Coating	<1%	H303(Acute Tox. 4) H312(Acute Tox. 4) H315(Skin Irrit. 2) H317(Skin Sens. 1) H319(Eye Irrit. 2) H372(STOT RE 1)	OK				Recycled Content: None Nanomaterials: No This substance is toxic if swallowed, is toxic in contact with skin, causes severe skin burns and eye damage, is toxic if inhaled and may cause an allergic skin reaction. However, the substance is chemically modified via polymerisation to form an inert polymer in combination with other ingredients. Manufacture has OHS and EMS in place.
Hydroxycyclohexyl Phenyl Ketone	947-19-3	<0.1%	None	OK				Recycled Content: None Nanomaterials: No
Polyvinyl Chloride	9002-86-2	40-50%	H315(Skin Irrit. 2) H319(Eye Irrit. 2) H335(STOT SE 3)	OK				Recycled Content: None Nanomaterials: No
BIS(2-ETHYLHEXYL)-1,4-BENZENEDICARBOXYLATE	6422-86-2	15-25%	None	OK				Recycled Content: None Nanomaterials: No
1,2-Benzenedicarboxylic acid dialkyl(C=16-18) esters	90193-76-3	<1%	None	OK				Recycled Content: None Nanomaterials: No
Zinc stearate	557-05-1	<1%	None	OK				Recycled Content: None Nanomaterials: No
Barium stearate	6865-35-6	<0.1%	H302(Acute Tox. 4)	OK				Recycled Content: None Nanomaterials: No
Magnesium Alluminium hydroxide Carbonate	12304-65-3	<1%	None	OK				Recycled Content: None Nanomaterials: No
1,3,5-TRIS(2-HYDROXYETHYL) ISOCYANURATE	839-90-7	<0.1%	None	OK				Recycled Content: None Nanomaterials: No
DIBENZOYLMETHANE	120-46-7	<0.1%	H317(Skin Sens. 1)	OK				Recycled Content: None Nanomaterials: No
CALCIUM CARBONATE	72608-12-9	30-40%	None	OK				Recycled Content: None Nanomaterials: No
Titanium dioxide	13463-67-7	1-5%	H351(Carc 2)	OK				Recycled Content: None Nanomaterials: No
Glass fiber	65997-17-3	<1%	H351(Carc 2)	OK				Recycled Content: None Nanomaterials: No This substance is suspected of causing cancer only when inhaled as a dust. However, the substance is chemically modified via polymerisation to form an inert polymer in combination with other ingredients. Manufacture has OHS and EMS in place.
Pulp	65996-61-4	<1%	None	OK				Recycled Content: None Nanomaterials: No

Comments:

VOC emissions: TVOC emission rate is 0.019mg/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 March 2022.

Formaldehyde emissions: formaldehyde emission rate is less than 0.006mg/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 March 2022.