GLOBAL GREEN TAG INTERNATIONAL PTY LTD

PHD™

Product Health Declaration

GLOBAL GREENTAG HEALTH RATE
CERT TM
Platinum HEALTH
trust brands™

Armstrong Flooring Pty Ltd

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 compliment 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.

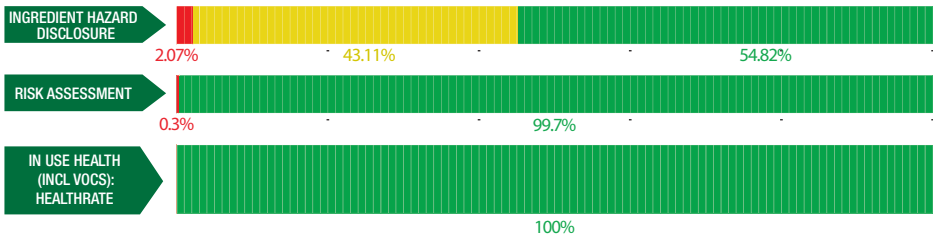
Products/Ranges:	Rejuvenations Plus & Rejuvenations
Product Stages Assessed:	Material inputs, Manufacturing, in-use
Product Type:	Resilient Flooring
CSI Masterformat:	TBC
Licenced Site/s:	Ulsan, Korea
Licence Number:	AWF:RE01:2022:PH
Licence Date:	3rd August 2022
Valid To:	3rd August 2023
Standard:	GGT International v4.0
Screening Date:	28th July 2022
PHD URL:	https://www.globalgreentag.com/get-file/13104/phd.pdf

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

- GreenTag Banned List Compliant.
- Product Meets Optimisation requirements - No Grey or Red Light category ingredient.
- Meets Green Star Buildings v1.0 Credit 9: Responsible Finishes (Best Practice Product),
  Green Star Design & As Built v1.3 Credit13: Indoor Pollutant, Green Star Interiors v1.3 Credit 12: Indoor Pollutant.
- Meets WELL™ v1.0 Features 97: Material Transparency, Feature 4: VOC Reduction and, WELL™ v2.0 Features – X07: Material Transparency, X08: Material Optimisation, X06: VOC Restrictions.
- Meets USGBC LEED® v4.0 and v4.1 Rating System MR Credit: "Building Product Disclosure and Optimisation - Material Ingredients" - Option 1: Material Ingredient Reporting and Option 2 - International ACP - REACH Optimisation.
- No worker, user, and environmental exposure to 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 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 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) 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 an 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 & v4.1, WELL v1 & v2, Living Building Challenge, Estidama etc., the following information is declared from audit:

Colour	Ingredient Name
Green	**Ideal- Low** No concerns- ingredient safe at any level based on current known science, % of the ingredient, and relevance to use context'
Yellow	**Medium to Low** Hazardous Ingredient with minor level of "Issue of Concern" depending on % of the ingredient, hazard level, and relevance to use context'
Orange	**Moderate** Hazardous ingredient with "Issue of Concern" or "Issue of Concern Minimised" depending on % of the ingredient, hazard level, and relevance to use context'
Red	**Problematic (Red): Target for Phase** Hazardous ingredient with 'Red Light" or "Red Light Minimised" concern depending on % of the ingredient, hazard level, and relevance to use context'
Dark Red	**Very Problematic (Dark Red): Target for Phase** Very Hazardous ingredient with 'Red Light Exclusion" concern depending on % of the ingredient, hazard level, and relevance to use context'
Grey	**Uncategorised** Not able to be categorised due to lack of toxicity impact information.
Black	**Banned Ingredients** Petroleum, Parabens plus a wide range of compounds stipulated by cleaning/personal products standards.

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
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 polyermisation 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 polyermisation 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-HYDROXYEYHYL) 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 polyermisation 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.