



Armstrong Flooring™

Armstrong Flooring LVT/P 2.0-5.0mm(JK)

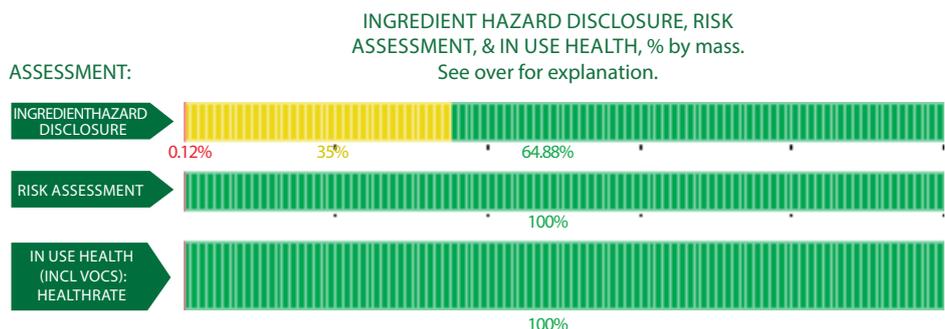
Armstrong Flooring's Luxury Vinyl Tile & Plank Flooring (JK) offers an array of modular shapes and sizes inspired by the natural beauty of wood, the colours and organic variations of stone and the distinctive woven appearance of textiles. The resilient flooring can be used for both commercial and residential projects.

| | |
|--------------------------|---|
| Products/Ranges: | Armstrong Flooring LVT/P 2.0-5.0mm(JK) |
| Product Stages Assessed: | Material inputs, Manufacturing, in-use |
| Product Type: | Resilient Flooring |
| CSI Masterformat: | TBC |
| Licenced Site/s: | Shanghai, China |
| Licence Number: | AWF:NC01:2022:PH |
| Licence Date: | 8th August 2022 |
| Valid To: | 6th April 2025 |
| Standard: | GGT International v4.0 |
| Screening Date: | 8th August 2022 |
| PHD URL: | http://www.globalgreentag.com/certificate/1704/ |



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|----------------------------------|-----------------------------|--------------------------|
| 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.



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:

- 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 Assessment | Whole Of Life Assessment | In Use Health Assessment | Comment |
|--|------------------------|--------------------------------|--|------------------|-----------------------|--------------------------|--------------------------|--|
| Polyvinyl Chloride (PVC) | 9002-86-2 | 30-40% | H319(Eye Irrit. 2) H315(Skin Irrit. 2) H335(STOT SE 3) | OK | | | | PVC causes skin and eye irritation in humans. However, the manufacturer of the product operates under an Environmental Management System and an Occupational Health and Safety System, therefore the risk is considered low. The substance is chemically combined into the final product, the hazards will not present in the final product. Therefore, it is not expected to cause harm to the users. |
| DOTP | 6422-86-2 | 5-10% | None | OK | | | | Recycled Content: None Nanomaterials: No |
| Calcium carbonate | 471-34-1 | 65-75% | None | OK | | | | Recycled Content: None Nanomaterials: No |
| Stabiliser | | | | | | | | |
| Compound Stabiliser for PVC | Stabiliser | 2-5% | None | OK | | | | Recycled Content: None Nanomaterials: No |
| Calcium stearate | 1592-23-0 | 0-2% | None | OK | | | | Recycled Content: None Nanomaterials: No |
| Zinc stearate | 557-05-1 | 0-3% | None | OK | | | | Recycled Content: None Nanomaterials: No |
| PU Coating | | | | | | | | |
| TMPTA Trimethylolpropane triacrylate | 15625-89-5 | <0.1% | H315, H317, H319, H410, H400 | OK | | | | Recycled Content: None Nanomaterials: No |
| TPGDA ((1-methyl-1,2-ethanediyl) bis[oxy(methyl-2,1-ethanediyl)] diacrylate) | 42978-66-5 | <0.1% | H319, H315, H317, H335, H411 | OK | | | | Recycled Content: None Nanomaterials: No |
| SiO2 Quartz | 14808-60-7 | <0.01% | None | OK | | | | Recycled Content: None Nanomaterials: No |

Comments:

VOC emissions: TVOC emission rate is 0.031mg/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 April 2017.

Formaldehyde emissions: formaldehyde emission rate is 0.003mg/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 April 2017.