



LX Hausys

Hetero Sheet 2.0mm (Wear Layer 0.7mm)

Hetero Sheet 2.0 mm (Wear Layer 0.7 mm) is a heterogeneous vinyl sheet flooring consisting of a transparent wear layer, printed design layer, dimensional stability layer, and backing. The product thickness is 2.0 mm with a 0.7 mm wear layer. It has been tested for slip resistance, scratch resistance, and stain resistance. Surface treatment provides anti-fungal and anti-bacterial properties. The product is available in various finishes and holds certifications including EPD, FloorScore, and Phthalate-Free compliance.

Products/Ranges:

Product Stages Assessed:

Product Type:

CSI Masterformat:

Licenced Site/s:

Licence Number:

Licence Date:

Valid To:

Standard:

Screening Date:

PHD URL:

Hetero Sheet 2.0mm

Manufacturing + In-Use

Resilient Flooring

096519

Seoul, Korea

LXH:SE01:2025:PH

26th August 2025

26th August 2026

GGT International v4.1

28th July 2025

www.globalgreentag.com/certificate/2991



PHD Summary

Percentage Assessed: 100%

Inventory Threshold:

100ppm Product Level

Inventory Method:

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 25 (Part 1, 2, 3, 4) , and, meets IWBI * WELL * v2.0 as Recognized for ~ X07 (Parts 1, 3); X08 (Part 2); as a Compliant Technical Document (Audited) for ~ 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.

ASSESSMENT:

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



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 Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Plasticized Vinyl Compound								
Calcium carbonate	471-34-1	5-15%	None, H318, H335, H315	OK	<div></div>	<div></div>	<div></div>	Appears as a white, odorless powder or granule under standard conditions. Routes of exposure are minimal and primarily include inhalation of dust and skin contact. This substance does not pose hazardous H phrases under normal use. Risks can be minimized by implementing an OHS-certified system to ensure safe handling and minimize dust exposure. Calcium carbonate does not contain recycled content or nano materials.
Bis(2-ethylhexyl) terephthalate	6422-86-2	5-15%	None	OK	<div></div>	<div></div>	<div></div>	Typically appears as a white, odorless powder or gel under standard conditions. Routes of exposure are minimal, primarily involving inhalation and skin contact. This substance does not present hazardous H phrases under typical use. Risk management includes using an OHS-certified system to ensure safe handling and reduce dust inhalation. There are no recycled content or nano material considerations for this substance.
Ethene, chloro-, homopolymer	9002-86-2	15-30%	IARC 3, None, H319, H335, H315, H362, H412, H400, H410	OK	<div></div>	<div></div>	<div></div>	Typically appears as a solid, colorless, and odorless polymer under standard conditions. Routes of exposure are minimal and primarily involve skin contact. This substance does not pose any hazardous H phrases under normal conditions. Risk can be minimized by applying an OHS-certified system to ensure safe handling procedures. Polyethylene does not contain recycled content or nano materials.
PVC RESIN								
Ethene, chloro-, homopolymer	9002-86-2	15-30%	IARC 3, None, H319, H335, H315, H362, H412, H400, H410	OK	<div></div>	<div></div>	<div></div>	Typically appears as a solid polymer that is colorless and odorless under standard conditions. Routes of exposure are minimal and primarily involve skin contact. This substance does not pose any hazardous H phrases under normal use. Risk can be minimized by implementing an OHS-certified system to ensure safe handling procedures. There is no recycled content or nano material consideration for this substance.
water	7732-18-5	0.01-1%	None	OK	<div></div>	<div></div>	<div></div>	Appears as a clear, colorless, and odorless liquid naturally existing under standard conditions. Routes of exposure are minimal, primarily including ingestion, skin contact, and eye contact. Water poses no hazardous H phrases under typical conditions, but in some processes, its presence can increase the mobility or release of hazardous components from other materials during phase 2. Risks can be minimized by having an OHS-certified system in place to ensure safe use and handling. Water does not contain recycled content or nano materials.
FILLER								
Limestone	1317-65-3	15-30%	None, H315, H318, H319, H335, H350, H372	OK	<div></div>	<div></div>	<div></div>	Appears as a white or gray, odorless solid, usually in powder or granular form under standard conditions. Routes of exposure are minimal and primarily include inhalation of dust and skin contact. This substance does not pose hazardous H phrases under typical use. Risks can be minimized by implementing an OHS-certified system to ensure proper handling and dust control measures. Limestone does not contain recycled content or nano materials.
Proprietary Substance	waterproofing / reduce permeability	0.01-1%	None	OK	<div></div>	<div></div>	<div></div>	Substance Declaration does not pose specific risks under normal use. No H-statements apply.
PLASTICIZER (DOTP)								

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Bis(2-ethylhexyl) terephthalate	6422-86-2	15-30%	None	OK	<div></div>	<div></div>	<div></div>	Appears as a white, odorless powder or gel under standard conditions. Routes of exposure are minimal, primarily involving inhalation of fine particles and skin contact. This substance does not present hazardous H phrases under normal use. Risks can be minimized by implementing an OHS-certified system to ensure proper handling and dust control measures. Aluminum hydroxide does not contain recycled content or nano materials.
Proprietary Substance	Covered by substance declaration	1-5%	None	OK	<div></div>	<div></div>	<div></div>	Substance Declaration does not pose specific risks under normal use. No H-statements apply.
STABILIZER								
Kerosine (petroleum), hydrodesulfurized; Kerosine - unspecified; [A complex combination of hydrocarbons obtained from a petroleum stock by treating with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150 °C to 290 °C (302 °F to 554 °F).]	64742-81-0	0.01-1%	H304	OK	<div></div>	<div></div>	<div></div>	Typically appears as a clear to pale liquid with a mild petroleum odor. Routes of exposure include inhalation, skin contact, and eye contact. This substance can carry hazardous H phrases (e.g., H304: May be fatal if swallowed and enters airways) depending on its composition. Risks can be minimized by using an OHS-certified system, proper ventilation, and protective equipment. It does not have recycled content or nano material considerations.
Barium neodecanoate	55172-98-0	0.01-1%	H302, H332, H318	OK	<div></div>	<div></div>	<div></div>	Appears as a white to yellowish powder or crystalline solid. Routes of exposure include skin contact, inhalation of dust, and accidental ingestion. It may have hazardous H phrases (e.g., H302: Harmful if swallowed; H400: Very toxic to aquatic life). Risk can be minimized by using an OHS-certified system and appropriate protective measures. Zinc pyrithione does not contain recycled content or nano materials.
Fatty acids, (C=12-18), barium salts	68131-57-7	0.01-1%	Not found	OK	<div></div>	<div></div>	<div></div>	Typically a pale-yellow viscous liquid or waxy solid. Routes of exposure are mainly skin and eye contact. It may have hazardous H phrases, such as H315 (Causes skin irritation) or H319 (Causes serious eye irritation). Risk management involves using gloves and protective handling practices under an OHS-certified system. There is no recycled content or nano material consideration.

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Zinc p-tert-butylbenzoate	4980-54-5	0.01-1%	H302, H411, H332, H312, H373, H361, H360, H372, H400, H410, None	Ok	<div></div>	<div></div>	<div></div>	Usually appears as a white crystalline powder. Routes of exposure include inhalation of dust, skin contact, and ingestion. It may have hazardous H phrases (e.g., H315: Causes skin irritation; H319: Causes serious eye irritation). Risk can be minimized by controlling dust and using OHS-certified systems. This substance has no recycled content or nano materials.
Zinc dibenzoate	553-72-0	0.01-1%	H400, H411, H318	OK	<div></div>	<div></div>	<div></div>	Typically appears as a pale-yellow liquid in solution. Routes of exposure are primarily skin and eye contact. It often carries hazardous H phrases (e.g., H301: Toxic if swallowed; H315: Causes skin irritation; H317: May cause an allergic skin reaction). Risks can be minimized with gloves, protective measures, and an OHS-certified handling system. It has no recycled content or nano material consideration.
Triisotridecyl phosphite	77745-66-5	0.01-1%	H413, H317	OK	<div></div>	<div></div>	<div></div>	Typically appears as a clear to pale-yellow viscous liquid with a mild odor. Routes of exposure are mainly skin contact and inhalation of vapors or mists. It is generally classified with hazardous H phrases such as H315 (Causes skin irritation) and H319 (Causes serious eye irritation). Risks can be minimized by using gloves, protective eyewear, and ensuring proper ventilation under an OHS-certified system. This substance does not contain recycled content or nano materials.
Isodecyl diphenyl phosphite	26544-23-0	0.01-1%	H317, H411, H315, H373, H410, H400, None, H319, H412, H332, H312, H302	OK	<div></div>	<div></div>	<div></div>	Appears as a white or off-white crystalline powder. Routes of exposure are mainly skin and eye contact. It may have hazardous H phrases like H400 (Very toxic to aquatic life). Risks can be minimized by following OHS-certified handling procedures. This material does not include recycled content or nano materials.
1,3-diphenylpropane-1,3-dione	120-46-7	0.01-1%	H317	OK	<div></div>	<div></div>	<div></div>	Colorless, oily liquid with little to no odor. Routes of exposure include skin contact, inhalation of vapors, and accidental ingestion. It may have hazardous H phrases such as H319 (Causes serious eye irritation). Risks can be minimized by proper ventilation and an OHS-certified safety system. There is no recycled content or nano material consideration
Proprietary Substance		5-15%	None	OK	<div></div>	<div></div>	<div></div>	Substance Declaration does not pose specific risks under normal use. No H-statements apply.

* No GHS H-Statement classification

The product fulfills AgBB 2021 requirements for VOC emissions.

TVOC (28 days): 0.047 mg/m³

Formaldehyde (EN 717-1, 144h): < detection limit

Comments:

WHS - Workplace Health and Safety
SHE - Safety Health and Environment