GLOBAL GREEN TAG INTERNATIONAL PTY LTD

PHD™
Product Health Declaration

GLOBAL GREENTAG HEALTH RATE
Bronze HEALTH
trust brands™

Tesrol
Likewood 2D+

Likewood 2D+ is a Decorative Board product. Likewood 2D+ Decorative Board is a printed Olefin Film finished with an Electron Beam (EB) clear cured surface, adhesively bound to a Moisture Resistant Medium Density Fibreboard surface.

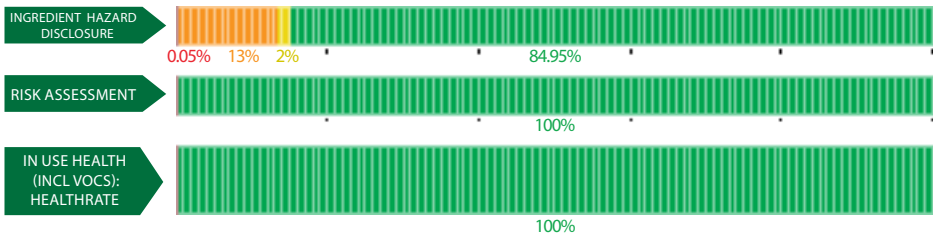
Products/Ranges:	Likewood 2D +
Product Stages Assessed:	Manufacturing + In-Use
Product Type:	Decorative Boards
CSI Masterformat:	06 40 00
Licenced Site/s:	Wetherill Park, Australia
Licence Number:	TES:TS02:2023:PH
Licence Date:	23rd October 2023
Valid To:	23rd October 2024
Standard:	GGT International v4.0
Screening Date:	17th October 2023
PHD URL:	https://www.globalgreentag.com/getfile/13280/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 IWBI ® WELL ® v1.0 as Recognized for ~ Feature 26 (Part 1); Feature 97 (Part 1); as a Compliant Technical Document (Audited) for ~ Feature 11 (Part 1); Feature 25 (Part 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 ~ X01 (Part 1); X05 (Part 1, 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

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	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Material: Medium Density Fibreboard								
Softwood	Wood Fibre	50-70%	None	OK				The wood is PEFC Chain of Custody Certified. When in its pressed board form there is no human health toxicity concerns. Wood when it's cut can produce wood dust and chronic exposure can increase the likelihood of nasal cavity cancer, however Tesrol's declared and provided supporting evidence that saw-cutting of the material is not involved during the manufacturing stage. During the In Use stage of the consumer the risk of wood dust exposure is unlikely. There are no concerns for human health toxicity in the In Use stage. Recycled Content: None Nanomaterials: No
Water	7732-18-5	5-15%	None	OK				There are no hazard statements or concerns for the moisture within the finished panel for human health toxicity in the In Use stage. Recycled Content: None Nanomaterials: No
Urea, polymer with formaldehyde and 1,3,5-triazine-2,4,6-triamine	25036-13-9	5-15%	H319 (Eye Dam. 2A), H412 (Aquatic Chronic 3), H315 (Skin Irrit. 2)	OK				The human health toxicity hazard statements H315 and H319 are considered to seldom be an issue during the In Use stage because these hazard statements apply when the adhesive is as a liquid. Once the adhesive has fully dried to a solid there are no concerns for human health toxicity in the In Use stage. Recycled Content: None Nanomaterials: Unknown
Paraffin waxes and Hydrocarbon waxes	8002-74-2	1-5%	H319 (Eye Irrit. 2)	OK				The human health toxicity hazard statements H319 are considered to seldom be an issue during the In Use stage because the wax is not expected to be at concentrations of exposure which when the wood when touched could cause any eye irritation. There are no concerns for human health toxicity in the In Use stage. Recycled Content: None Nanomaterials: Unknown
Material: Adhesive								
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	101-68-8	0.01-1%	H351 (Carc. 2) H332 (Acute Tox. 4) H335 (STOT SE 3) H373 (STOT RE 2) H315 (Skin Irrit. 2) H319 (Eye Irrit. 2) H334 (Resp. Sens. 1) H317 (Skin Sens. 1)	OK				Exposure to this substance for consumer use has been evaluated under REACH by the Member State competent authority of Estonia for the Substance Evaluation Conclusion document which determined under 7.12.1.2 that exposure was negligible with no concerns for consumers. The highest risk for this substance is from inhalation during the worker stage. There are no concerns for human health toxicity identified in the In Use stage. Recycled Content: None Nanomaterials: Unknown
Propriety	Adhesive for Wooden Boards	0.01-1%	None	OK				The manufacturer has declared no additional substances ingredients with hazards down to 0.01%. There are no concerns for human health toxicity indentified in the In Use stage. Recycled Content: None Nanomaterials: No
Material: Finish Foil								
Propriety	Decorative Polyolefin Film Wrapped Onto Woodeen Substrates	0.01-1%	None	OK				The manufacturer has declared no additional substances ingredients with hazards down to 0.01%. There are no concerns for human health toxicity indentified in the In Use stage. Recycled Content: None Nanomaterials: Unknown

* No GHS H-Statement classification

Comments:

The Likewood 2D+ has been tested to ASTM D7706-11, which follows the same analytical technique as the small chamber method ASTM D5116, for both formaldehyde emissions and Total VOC as Toluene. The test reports a formaldehyde emissions factor of 0.11 mg/m2/hr which is above the reference standard for ASTM D5116 in the Global GreenTag International Standard v4.0 of ≤0.1 mg/m2/hr (see Table 7.4.1). The test reports a TVOC as Toluene of 1.5 mg/m2/hr which is above the Global GreenTag International Standard v4.0 of ≤0.5 mg/m2/hr for a fitout item (see Table 7.10.1).