GLOBAL GREEN TAG INTERNATIONAL



Bolon AB / The Andrews Group **Bolon Woven Flooring Collections**

Bolon Woven Flooring Collections are resilient, durable synthetic woven flooring suitable for interior and some exterior commercial and residential floor finishes.

Products/Ranges: Product Type: CSI Masterformat: Licenced Site/s: Licence Number: Licence Date: Valid To: Standard: Screening Date: PHD URL:

Bolon Woven Flooring Collections Product Stages Assessed: Manufacturing + In-Use Woven Vinyl Flooring 09 65 00 Ulricehamn, Sweden TAG:BO01:2023:PH 23rd January 2018 10th September 2024 GGT International v4.0 17th October 2023 https://www.globalgreentag.com/getfile/12162/phd.pdf





PHD Summary Percentage Assessed: 100%

Inventory Threshold: 100ppm Product Level

Inventory Method: Nested Materials

GreenTag Banned List Compliant.

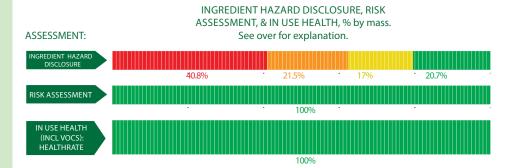
ScreenTag PHD recognized by WELL * & LEED * Material Transparency & Optimization credits included below:

Meets Green Star* 'Buildings v1.0' as Recognized for~ Credit 9: Responsible Finishes; as a Compliant Technical Document (Audited) for ~ Credit 13: Exposure to Toxins, and 'Design & As Built v1.3' and 'Interiors v1.3' ~ Indoor Pollutants.

🔕 Meets IWBI \degree WELL \degree 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 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 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:

- 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

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.



2 **Product Health Declaration**



								The overwhelming majority of published hazards reviewed report this chemical as unclassified. The reported hazards have
								been included based on the precautionary principle to assess all potentially reported hazards.
Acetic acid ethenyl ester, polymer with ethene	24937-78-8	0.01-1%	H351 (Carc. 2), H317 (Skin Sens. 1), H319 (Eye Dam. 2A), H315	ок				The chemical is expected to be chemically transformed from it's liquid state during manufacture. There is not expected to be any amounts remaining in the final produc that would exposed humans through skin or inhalation to any classified hazards within the In Use stage.
			(Skin Irrit. 2)					Any potential off gassing of this chemical through Volatile Organic Compound (VOC) emissions is minimal because the client has provided a compliant VOC certificate.
								There are no expected concerns for human health toxicity in the In Use stage. Recycled Content: None
								Nanomaterials: Unknown
Material: Plasticiser								Review of published hazards identified
								none with all being unclassified.
								The chemical is used as a plasticizer for the PVC to provide flexibility.
Alkyl Sulfonate	91082-17-6	5-15%	None	ОК	-		_	There is potential for humans to be exposed to this chemical through skin contact. Having no identified hazards there are no assessed concerns for human health toxicity identified withi the In Use stage.
								Recycled Content: 2% Post-I (Finished Product) Nanomaterials: Unknown
								Review of published hazards identified none with all being unclassified.
								The chemical is used as a plasticizer for the PVC to provide flexibility.
Bis(2-ethylhexyl) tere- phthalate	6422-86-2	5-15%	None	ОК				There is potential for humans to be exposed to this chemical through skin contact. Having no identified hazards there are no assessed concerns for human health toxicity identified withi the In Use stage.
								Recycled Content: None Nanomaterials: Unknown
Material: Stabiliser								
Soybean oil, epoxidized	8013-07-8	0.01-1%	None	ОК	_	_		There are no current hazard classifications for this chemical and there are no expected toxic effects for scenarios of dermal and inhalation exposure. There are no identified concerns for human health toxicity identified for this chemical within the In Use stage.
								Recycled Content: 0.2% Post-l (Finished Product) Nanomaterials: Unknown
								Review of published hazards identified one IARC 3 hazard statement. The International Agency for Research on Cancer (IARC) statement IARC 3 means there is no evidence at present that PVC causes cance in humans.
								The chemical is used as a stabilizer for the PVC to provide heat and light stability.
Calcium / Zinc	Stabiliser	0-1%	(IARC 3)	ОК				Further review did not identify any hazard: for common zinc and calcium salt PVC stabilizers.
								There are no assessed concerns for human health toxicity within the In Use stage.
								Recycled Content: 0.15% Post-I (Finished Product) Both or Unknown / None Nanomaterials: Unknown

Titanium Dioxide	13463-67-7	0.01-1%	IARC 2B, H351 (Inhala- tion - Carc. 2)	ОК		Review of published hazards for Titanium Dioxide indicate high toxicity. This is limited to potential inhalation and consumption. The International Agency for Research on Cancer (IARC) statement IARC 2B is that this chemical is possibly carcinogenic to humans however evidence is far from conclusive. The higher risk exposure scenarios of inha- lation as a powder are unlikely and there is negligible risk for its use in the product being bound in the PVC polymer. There are no assessed concerns for human health toxicity identified for this chemical within the In Use stage. Recycled Content: None Nano Materials: Unknown
Various Pigments	Pigments	0.01-1%	None	ОК	 	 Pigments were reviewed through a man- ufacturer declaration for hazards above a 0.01% threshold. No hazards were identified within pigments above the 0.01% threshold of the declara- tions received from the manufacturer. There are no assessed concerns for human health toxicity for this chemical within the In Use stage. Recycled Content: 0.03% Post-I (Finished Product) Nanomaterials: Unknown
Carbon Black	1333-86-4	0.01-1%	IARC 2B	ОК		Review of published hazards for Carbon Black indicate moderate toxicity. This is limited to potential inhalation and consumption. The International Agency for Research on Cancer (IARC) statement IARC 2B is that this chemical is possibly carcinogenic to humans however evidence is far from conclusive. The abrasion of the finished product could release Carbon Black as a powder into the environment and expose people to inhalation risk. However the frequency that hazardous amounts of Carbon Black powder would be release through abrasion during the In Use stage is unlikely because it is encapsulated in the PVC polymer. There are no assessed concerns for human health toxicity identified for this chemical within the In Use stage. Recycled Content: None Nanomaterials: Unknown
Material: Fibres						National Church State St
Polyester: Poly(oxy-1,2-ethanediy- loxycarbonyl-1,4-phenyl- enecarbonyl)	25038-59-9	1-5%	H319 (Eye Dam. 2A)	ОК		The overwhelming majority of published hazards reviewed report this chemical as unclassified. The reported hazards have been included based on the precautionary principle to assess all potentially reported hazards. The abrasion of the finished product could release fine fibre particles into the air. However the frequency that hazardous amounts would be released is unlikely at the product is used as a backing and tightly bound. There are no assessed concerns for human health toxicity for this chemical within the In Use stage. Recycled Content: None Both or Unknown / None Nanomaterials: Unknown



Fibre Glass	65997-17-3	1-5%	H350 (Carc. 1B)	ОК				Review of published hazards for Fibre Glass indicate high toxicity. This high toxicity is limited to potential inhalation especially in the installation of glass fibre insulation. The product is not a glass fibre insulation, the amounts of fibre glass in the product are much lower than those of glass fibre insulation. Since the fibre glass is bound in the polymer there is an unlikely release into the environment. There are no assessed human health toxicity concerns for these chemicals within the Iu Se stage. Recycled Content: None Both or Unknown / None Nanomaterials: Unknown
Additives	Lubricants, Coatings and Antistatic Agents	1-5%	None	ОК	_	_	_	Additives were reviewed through a man- ufacturer declaration for hazards above a 0.01% threshold. No hazards were identified within pigments above the 0.01% threshold of the declara- tions received from the manufacturer. There are no assessed concerns for human health toxicity for this chemical within the In Use stage. Recycled Content: None Nanomaterials: Unknown
Phosphoric acid, mono- C10-14-alkyl esters, dipotassium salts	68649-41-2	1-5%	H315 (Skin Irrit. 2), H319 (Eye Dam. 2A)	ОК				Review of published hazards for this chemi- cal indicate mild toxicity. This chemical's highest risk is as a powder or when dissolved in a liquid with potential eye and skin exposure. Since the chemical is present at low amounts and bound with- in the flooring product the potential for hazardous amounts being release during the In Use stage is unlikely. There are no assessed concerns for human health toxicity for this chemical within the In Use stage. Recycled Content: None Nanomaterials: Unknown

Comments: Bolon Woven Vinyl has been tested to ASTM D5116-97. The test report shows Total Volatile Organic Compounds at 24 hours is 0.35 mg/m2/hr and 4-Phenylcyclohexane at 24 hours is <0.01 mg/m2/hr at 24 hours which is below the Global GreenTag International v4.0 Emissions to Air: Indoor Air Quality Standard Threshold for TVOC at 0.5 mg/m2/hr and 4-Phenylcyclohexane at <0.05 mg/m2/hr.

