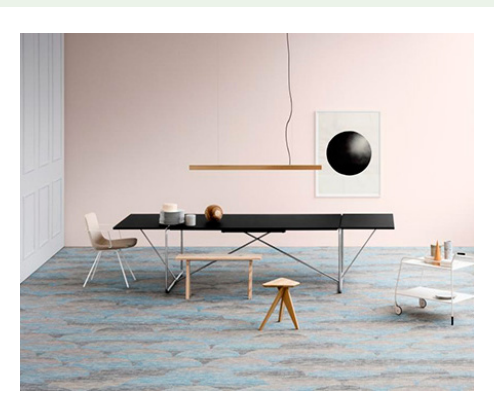




## Bolon AB/The Andrews Group Bolon Woven Flooring Collections

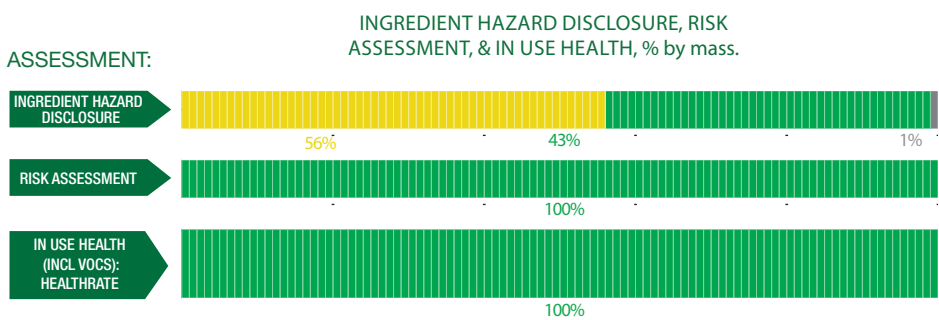
Bolon Woven Flooring Collections are resilient, durable synthetic woven flooring suitable for interior and some exterior commercial and residential floor finishes.



**Products/Ranges:** Bolon Woven Flooring Collections  
**Product Stages Assessed:** Whole of life +re-use potential  
**CSI Masterformat:** 09 65 16.32 Vinyl Sheet Flooring, 09 65 19.23 Vinyl Tile Flooring  
**Licensed Site/s:** Ulricehamn, Sweden  
**Licence Number:** TAG:BO01:2020:PH  
**Licence Date:** 23rd January 2018  
**Valid To:** 10th September 2023  
**Standard:** GGT International v4.0  
**Screening Date:** 16th November 2022  
**PHD URL:** <https://www.globalgreentag.com/getfile/12162/phd.pdf>

<b>PHD Summary</b>	<b>Inventory Threshold:</b>	<b>Inventory Method:</b>
Percentage Assessed: <b>100%</b>	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' 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® 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 11 (Part 1), 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); 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.
- Highly unlikely 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 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 each homogeneous ingredient 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) 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 a 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, Living Building Challenge, Estidama etc., the following information is declared from audit:

Colour	Ingredient Name
Green	<b>Ideal- Low</b> No Comment required
Yellow	<b>Medium to Low</b> No Comment, or 'Issue of Concern' required depending on % of ingredient.
Orange	<b>Moderate</b> 'Issue of Concern' or 'Red Light' Comment depending on % of ingredient.
Red	<b>Problematic (Red): Target for Phase</b> 'Issue of Concern' or 'Red Light' Comment depending on % of ingredient.
Grey	<b>Uncategorised</b> Not able to be categorised due to lack of toxicity impact information.
Black	<b>Banned Ingredients</b> POPs, SVHCs plus a wide range of compounds depending on specific Standard requirements

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	Ingredient Assessment (Raw)	Whole Of Life Assessment	In Use Health Assessment	Comment
Material: Filler							
Dolomite	16389-88-1	10-25%	H315 (Skin Irrit. 2)				Risks associated with the use of this substance is non-existent after the manufacturing process. Therefore, it is unlikely that the ingredient will carry its property to the final product.  Recycled Content: No Nanomaterials: Yes
Calcium Carbonate	1317-65-3	10-25%	None				The substance is non-hazardous.  Recycled Content: No Nanomaterials: No
Material: Polymer							

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment (Raw)	Whole Of Life Assessment	In Use Health Assessment	Comment
Polyvinylchloride	9002-86-2	20-35%	IARC 3, H315 (Skin Irrit. 2), H319 (Eye Irrit. 2), H335 (STOT SE 3)				The hazards are only related to the residue monomers that may be present in the substance. However, as the concentration of the monomers are extremely low (less than 1ppm with Best PVC certificate), it is not expected that the substance will cause any harm to the users in the final product.  Recycled Content: No Nanomaterials: No
Material: Bottom Backing ( Post Industrial Recycled Material)							
Polyvinylchloride	9002-86-2	1-5%	IARC 3, H315 (Skin Irrit. 2), H319 (Eye Irrit. 2), H335 (STOT SE 3)				The hazards are only related to the residue monomers that may be present in the substance. However, as the concentration of the monomers are extremely low (less than 1ppm with Best PVC certificate), it is not expected that the substance will cause any harm to the users in the final product.  Recycled Content: Yes Nanomaterials: No
Diocetyl Terephthalate (DOTP)	6422-86-2	0.1-1%	None				The substance is non-hazardous.  Recycled Content: Yes Nanomaterials: No
Calcium/Zinc stabiliser and remaining substances	Stabiliser	0.01-0.1%	None				The substance is unknown. However, as there is no hazard declared, it is not expected to cause any harm to the users.  Recycled Content: Yes Nanomaterials: Unknown
Calcium Carbonate	1317-65-3	5-10%	None				The substance is non-hazardous.  Recycled Content: Yes Nanomaterials: No
Carbon Black	1333-86-4	0.01-0.1%	IARC 2B, H351				This substance as a raw ingredient, is suspected of causing cancer if workers are exposed.  The factory's OH&S conditions and GGTI safety review indicate exposure is unlikely. Once combined, ingredients form an inert polymer matrix.  Whatsoever end-users are not exposed to the bottom backing which contain this ingredient and so are not at risk of exposure  Recycled Content: No Nanomaterials: No
Fiber glass	16389-88-1	0.01-0.1%	None				Fiberglass used is unknown. However, as there is no hazard declared, it is not expected to cause any harm to the users.  Recycled Content: Unknown Nanomaterials: Unknown
Acrylic Lacquer	1317-65-3	0.01-0.1%	None				The substance is unknown. However, as there is no hazard declared, it is not expected to cause any harm to the users.  Recycled Content: Yes Nanomaterials: Unknown
Material: Ethylene-vinyl Acetate (EVA) resin							
EVA and remaining substances	Adhesive	0-1%	None				Remaining additive used is unknown. However, as there is no hazard declared, it is not expected to cause any harm to the users.  Recycled Content: Unknown Nanomaterials: Unknown

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment (Raw)	Whole Of Life Assessment	In Use Health Assessment	Comment
Material: Plasticizer							
Alkylsulfonic acid phenyl ester	91082-17-6	2.5-10%	None				Recycled Content: No Nanomaterials: No
Material: Plasticizer							
Diocetyl Terephthalate (DOTP)	6422-86-2	2.5-10%	None				Recycled Content: No Nanomaterials: No
Material: Stabiliser							
Epoxidized soybean oil	8013-07-8	0-1%	None				Recycled Content: No Nanomaterials: No
Calcium/Zinc stabiliser and remaining substances	Stabiliser	0-1%	None				The substance is unknown. However, as there is no hazard declared, it is not expected to cause any harm to the users.  Recycled Content: Unknown Nanomaterials: Unknown
Calcium/Zinc stabiliser and remaining substances	Stabiliser	0-1%	None				The substance is unknown. However, as there is no hazard declared, it is not expected to cause any harm to the users.  Recycled Content: Unknown Nanomaterials: Unknown
Material: Pigment							
Titanium dioxide	13463-67-7	0-1%	IARC 2B, Carc Cat. 2B				Titanium Dioxide can be harmful when it is inhaled, and it is classified as possibly carcinogenic to humans. However, as the substance is embedded in the product, the hazards will not be present in the final product. Therefore, it is not expected to cause any harm to the users.  Recycled Content: No Nanomaterials: Yes
Pigment	Pigment	0-1%	None				Unknown substance is used, however, as there is no hazard declared, it is not expected to cause any harm to the users.  Recycled Content: Unknown Nanomaterials: Unknown
Pigment	Pigment	0-1%	None				Unknown substance is used, however, as there is no hazard declared, it is not expected to cause any harm to the users.  Recycled Content: Unknown Nanomaterials: Unknown
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Pigment	Pigment	0-1%	None				Unknown substance is used, however, as there is no hazard declared, it is not expected to cause any harm to the users.  Recycled Content: Unknown Nanomaterials: Unknown
Pigment	Pigment	0-1%	None				Unknown substance is used, however, as there is no hazard declared, it is not expected to cause any harm to the users.  Recycled Content: Unknown Nanomaterials: Unknown
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Pigment	Pigment	0-1%	None				Unknown substance is used, however, as there is no hazard declared, it is not expected to cause any harm to the users.  Recycled Content: Unknown Nanomaterials: Unknown
Pigment	Pigment	0-1%	None				Unknown substance is used, however, as there is no hazard declared, it is not expected to cause any harm to the users.  Recycled Content: Unknown Nanomaterials: Unknown
Material: Fiber Glass							
Fiber glass	Fiber Glass	1-2.5%	None				Fiber glass used is unknown. However, as there is no hazard declared, it is not expected to cause any harm to the users.  Recycled Content: Unknown Nanomaterials: Unknown
Material: Polyester yarn							
Poly Ethylene Terephthalate	25038-59-9	1-5%	None				Recycled Content: No Nanomaterials: No
Additives	Additive	0.01-0.1%	None				Remaining additive used is unknown. However, as there is no hazard declared, it is not expected to cause any5 harm to the users.  Recycled Content: Unknown Nanomaterials: Unknown

**Comments:**

VOC emissions: SCS Global Services meets Floorscore, in compliance with CDPH/EHLB Standard Method v1.2-2017 with TVOC less than/equal to 0.5 mg/m3. Global GreenTag International Program Standard v4.0 Carpet and Floor Coverings Supplementary Standard in accordance with requirements of the Green Building Council of Australia, New Zealand Green Building Council and LEED v4, as updated from time to time.

Material pigment can be used together or separately in order to make different colour ranges available in the Bolon Woven Vinyl Flooring Collections.