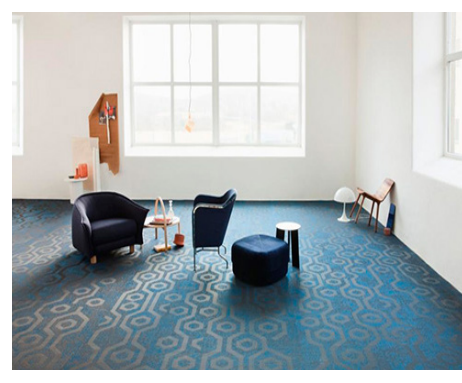




# Bolon AB/ The Andrews Group Bolon Woven Vinyl Flooring Collections

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

**Products/Ranges:** Woven Vinyl Flooring Collections  
**Product Stages Assessed:** Manufacturing, in use and end of life  
**CSI Masterformat:** 09 65 16.23 Vinyl Sheet Flooring, 09 65 19.23 Vinyl Tile Flooring  
**Licensed Site/s:** Ulricehamn, Sweden  
**Licence Number:** TAG-001-v1-2017-PHD  
**Licence Date:** 23rd January 2018  
**Valid To:** 10th September 2020  
**Standard:** GGT International v4.0  
**Screening Date:** 27th October 2017  
**PhD URL:** [https://www.globalgreentag.com/wp-content/uploads/2016/03/190917\\_TAG\\_BolonPhD\\_v3.pdf](https://www.globalgreentag.com/wp-content/uploads/2016/03/190917_TAG_BolonPhD_v3.pdf)

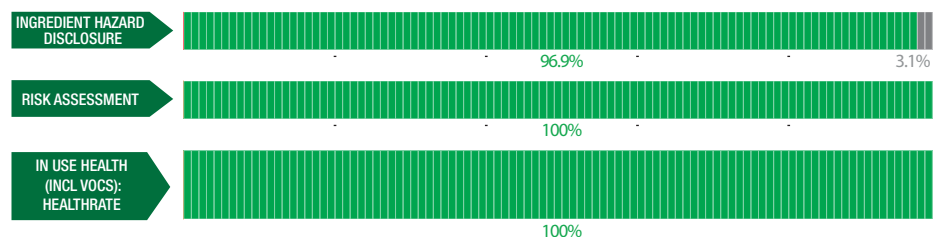


This PhD ceases currency when original GreenTag GreenRate/LCARate certification expires or is revoked. Please check [www.globalgreentag.com](http://www.globalgreentag.com) for currency. [Note disclaimer over.](#)

<b>PhD Summary</b> Percentage Assessed: <b>100%</b>	<b>Inventory Threshold:</b> 100ppm Product Level	<b>Inventory Method:</b> Nested Materials
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- GreenTag Banned List Compliant
- Meets Indoor Air Quality VOC emission requirements, for Green Star
- Meets Feature 4 VOC Reduction Part 5: Furniture and Furnishings, Feature 26 Enhanced Material Safety Part 1: Precautionary Material Selection and Feature 97 Material Transparency under WELL™ Building Standard v1.0
- Certified Best Practice Guidelines for PVC in the Building Environment
- Product Meets Optimisation requirements - No Grey or Red Light category ingredients
- No worker exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors
- No user exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors
- No environmental exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors

**ASSESSMENT:**



INGREDIENT HAZARD DISCLOSURE, RISK ASSESSMENT, & IN USE HEALTH, % by mass.

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 an 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. Limit 10%
Red	<b>Problematic (Red): Target for Phase</b> 'Issue of Concern' or 'Red Light' Comment depending on % of ingredient. Strict Upper Limit of 1%
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
<b>Material 1: Dolomite</b>							
Dolomite	Filler	25-45%	None				Recycled Content: None Nanomaterial: Yes
Remaining substance	Unknown	0-15%	None				Remaining substance is unknown, however as no hazard is declared, it is not expected to cause harm to the users.  Recycled Content: None Nanomaterial: Yes

Material 2: Polyvinylchloride							
Polyvinylchloride	PVC Resin	20-40%	Eye Irrit. 2/2A, STOT 3, Skin Irrit. 2				<p>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 harm to the users in the final product.</p> <p>Recycled Content: None Nanomaterial: Unknown</p>
Material 3: Plasticiser							
Alkylsulfonsyrafenyl ester	Plasticiser	10-20%	None				<p>Recycled Content: None Nanomaterial: None</p>
Remaining substances	Unknown	0-5%	None				<p>Unknown substance is used, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 4: Fiber Glass							
Fiber Glass	Reinforcement	0-5%	None				<p>The Fiber Glass used is unknown. However as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterial: Unknown</p>
Material 5: Polyester Yarn							
Polyethylene Tetrathalate (PET)	Weft yarn	0-5%	None				<p>Recycled Content: None Nanomaterial: None</p>
Pigment	Pigment	0-5%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Additives	Unknown	0-5%	None				<p>Remaining additive used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 6: Epoxidized Soybean Oil							
Epoxidized soybean oil	Additive	0-5%	None				<p>Recycled Content: None Nanomaterial: None</p>
Material 7: Titanium Dioxide							
Titanium Dioxide	White Pigment and Opacifier	0-5%	IARC Cat. 2B, Carc Cat. 2B				<p>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 harm to the users.</p> <p>Recycled Content: No Nanomaterials: Yes</p>
Material 8: Calcium/ Zinc Compound							
Calcium/ Zinc Stabiliser	Stabiliser	0-5%	None				<p>The stabiliser used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>

Material 9: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 10: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 11: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 12: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 13: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 14: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 15: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 16: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 17: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 18: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>

Material 19: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 20: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 21: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 22: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 23: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 24: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 25: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 26: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 27: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 28: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>

Material 29: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 30: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 32: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 33: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 34: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 35: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 36: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 37: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 38: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 39: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>

Material 40: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 41: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 42: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 43: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 44: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 45: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 46: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 47: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 48: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 49: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>

Material 50: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 51: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 52: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 53: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 54: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 55: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 56: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 57: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 58: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 59: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>



Material 60: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 61: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 62: Pigment							
Pigment	Pigment	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 63: Ethylene-vinyl Acetate (EVA) resin							
EVA and remaining substances	Adhesive	0-1%	None				<p>Remaining substance used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Material 64: Calcium Carbonate							
Calcium Carbonate	Filler	0-1%	None				<p>Pigment used is unknown, however, as there is no hazard declared, it is not expected to cause harm to the users.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
<b>Comments:</b>							
VOC emissions: SCS Global meets Floorscore, in compliance with CDPH/EHLB Standard Method v1.2-2017 with TVOC less than/equal to 0.5 mg/m <sup>3</sup>							
VOC content: Not applicable							
Material 9-61 Pigment can be used together or separately in order to make different color ranges available in the Bolon Woven Vinyl Flooring Collections.							