



Belgotex

SDN Tufted Bitumen Backed Carpet Tile

SDN Tufted Bitumen Backed Carpet Tile is a solution dyed Nylon Tufted Commercial Carpet Tile that is available in an array of colors and design.

Products/Ranges:	SDN Tufted Bitumen Backed Carpet Tile
Product Stages Assessed:	Whole of life + In Use
Product Type:	Carpet Tile
CSI Masterformat:	096813
Licensed Site/s:	Pietermaritzburg, South Africa
Licence Number:	BEL:BE01:2022:PH
Licence Date:	13th September 2022
Valid To:	28th August 2024
Standard:	GGT International v4.0
Screening Date:	13th September 2022
PHD URL:	https://www.globalgreentag.co.za/getfile/12389/phd.pdf

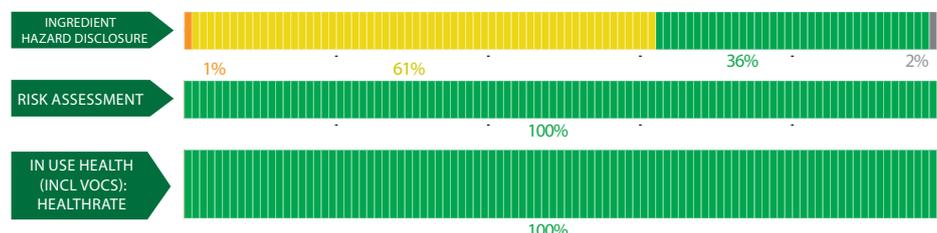


PHD Summary	Inventory Threshold:	Inventory Method:
Percentage Assessed: 100%	100ppm Product Level	Nested Materials

- GreenTag Banned List Compliant.
- GreenTag PHD recognized by WELL * & LEED * Material Transparency & Optimization credits included below:
- Meets Green Star * 'Buildings v1.0' ~ Credit 9: Responsible Finishes (Best Practice - EPD available), Credit 13: Exposure to Toxins, and, meets '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); Feature 25 (Part 2, 3) , 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 System MR Credit: "Building Product Disclosure and Optimisation - Material Ingredients" - Option 1: Material Ingredient Reporting and 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:

- 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 Category	REACH Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
SDN Master Batch								
PA6 PB60 30 % Blue 5P510042M								
Proprietary	PA6 Carrier	0.1-1	None Declared	OK				The substance is declared non Hazardous. Recycled Content: Unknown Nanomaterials: Unknown
Pigment Blue	81-77-6	0.1-1	None	OK				The substance is non Hazardous. Recycled Content: Unknown Nanomaterials: Unknown
Sorbitan, tri-(9Z)-9-oc-tadecenoate, poly(oxy-1,2-ethanedi-yl) derivs.	9005-70-3	0.01-0.1	H412	OK				If it enters the waterways, the substance could harm aquatic life with long-lasting effects. The risk is more likely to occur during the manufacturing process if the concentrated substance is washed and released through the drain without any treatment. This risk does not occur in the finished product. Belgotex has an environmental policy in place with a commitment to prevent pollution in all forms. Toxic substances will not be discharged into waterways, or it will be treated prior to discharge. Belgotex has OH&S policy in place. Belgotex is ISO14001, and ISO45001 certified Recycled Content: Unknown Nanomaterials: Unknown
Fatty acids, mon-tan-wax, 1-meth-yl-1,3-propanediyl esters	73138-44-0	0.01-0.1	None	OK				The substance is non Hazardous. Recycled Content: Unknown Nanomaterials: Unknown
SDN Yarn								
PA 6 (Nylon)								
PA 6 (Nylon)	25038-54-4	10-20	IARC 3, H315, H319	OK				The substance is categorized as IARC3 (not classifiable as to its carcinogenicity to humans). This category is used most commonly for agents, mixtures, and exposure circumstances for which the evidence of carcinogenicity is inadequate in humans and inadequate or limited in experimental animals. If exposed to the skin and eyes, the substance can cause skin and eye irritation. The factory's OH&S conditions and GGTI safety review indicate exposure is unlikely. Once combined, ingredients form a polyamide polymer. In this form the material doesn't pose any risk. Therefore it is unlikely to pose any hazard to the end user. Belgotex has OH&S policy in place. Belgotex is ISO14001, and ISO45001 certified. Recycled Content: Unknown Nanomaterials: Unknown
Masterbatch								

PA6 Granules- Clear (Nylon)	25038-54-4	0.1 - 1	IARC3, H315, H319	OK				<p>The substance is categorized as IARC3 (not classifiable as to its carcinogenicity to humans). This category is used most commonly for agents, mixtures, and exposure circumstances for which the evidence of carcinogenicity is inadequate in humans and inadequate or limited in experimental animals.</p> <p>If exposed to the skin and eyes, the substance can cause skin and eye irritation.</p> <p>The factory's OH&S conditions and GGTI safety review indicate exposure is unlikely. Once combined, ingredients form a polyamide polymer. In this form the material doesn't pose any risk. Therefore it is unlikely to pose any hazard to the end user.</p> <p>Belgotex has OH&S policy in place. Belgotex is ISO14001, and ISO45001 certified.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
SPD- Brown 24	Pigment	0.01 - 0.1	None	OK				<p>The substance is declared non hazardous.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
SPD-White 6	Pigment	0.01 - 0.1	None	OK				<p>The substance is declared non hazardous.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
SPD Natural UV	Pigment	0.01 - 0.1	None	OK				<p>The substance is declared non hazardous.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Spin Finish								
Potassium (Z)-N-methyl-N-(1-oxo-9-oxo-tadecenyl)aminoacetate	76622-74-7	0.01-1	H400, H318, H315, H332	OK				<p>If exposed to the skin and eyes, the substance can cause severe eye damage and skin irritation. The substance is harmful if inhaled, and if it enters the waterways, it is very toxic to aquatic life.</p> <p>The factory's OH&S conditions and GGTI safety review indicate exposure is unlikely. The spin finish is bound to the surface of the yarn. The substance will not leach and be exposed to the end user. The concentration of the substance in the final product is very low. Therefore it is unlikely to pose any hazard to the end user.</p> <p>Belgotex has an environmental policy in place with a commitment to prevent pollution in all forms. Toxic substances will not be discharged into waterways, or they will be treated prior to discharge.</p> <p>Belgotex is ISO14001, and ISO45001 certified.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Proprietary	Lubricant	0.1-1	None	OK				<p>The substance is declared non-hazardous.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>

Water	7732-18-5	0.01-0.1	None	OK				Water is non hazardous. Recycled Content: Unknown Nanomaterials: Unknown
Primary Backing								
CLC218 (PET)								
Polyethylene terephthalate	25038-59-9	1-5	None	OK				The substance is non hazardous. Recycled Content: Unknown Nanomaterials: Unknown
Polyethylene	9002-88-4	0.1-1	IARC3	OK				The substance is categorized as IARC3 (not classifiable as to its carcinogenicity to humans). This category is used most commonly for agents, mixtures, and exposure circumstances for which the evidence of carcinogenicity is inadequate in humans and inadequate or limited in experimental animals. Based on the definition above, it is unlikely that the substance will pose any hazard during the manufacturing and in-use stage. Furthermore, the substance is part of the backing component, and the yarn will fully cover the backing. Therefore it is unlikely to pose any hazard to the end user. Belgotex has OH&S policy in place. Belgotex is ISO14001, and ISO45001 certified. Recycled Content: Unknown Nanomaterials: Unknown
Co-polyester	24938-04-3	0.1-1	None	OK				The substance is non hazardous. Recycled Content: Unknown Nanomaterials: Unknown
Proprietary	Mineral filler	0.01-1	None	OK				The substance is non hazardous. Recycled Content: Unknown Nanomaterials: Unknown
Proprietary	Additives	0.01-1	None	OK				The substance is non hazardous. Recycled Content: Unknown Nanomaterials: Unknown
Spin Finish	68439-50-9	0.01-1	H400, H411	OK				If enter the waterways, the substance is very harmful to aquatic life. Belgotex has an environmental policy in place with a commitment to prevent pollution in all forms. Toxic substances will not be discharged into waterways, or they will be treated prior to discharge. Belgotex has OH&S policy in place. Belgotex is ISO14001, and ISO45001 certified Recycled Content: Unknown Nanomaterials: Unknown
Pre coat								
Latex 2015								
Emulsion Styrene/butadiene polymer	9003-55-8	1-5	None	OK				The substance is non hazardous. Recycled Content: Unknown Nanomaterials: Unknown
Latex XZ92227								

Proprietary	Polymer	1-5	IARC3	OK				<p>The substance is not classifiable as to its carcinogenicity to humans.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Proprietary	Solvent	1-5	None	OK				<p>Water is non hazardous.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Water								
Water	7732-18-5	1-5	None	OK				<p>Water is non hazardous.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Octosol LS								
Sulfuric acid, mono-C9-11-alkyl esters, sodium salts	84501-49-5	0.01-0.1	H302, H318, H412, H315, H228, H332, H335	OK				<p>The substance is harmful if swallowed. If exposed to the eyes, skin, and respiratory system, the substance can cause eye damage, skin irritation, and respiratory irritation. If it enters the waterway, the substance is harmful to aquatic life.</p> <p>The factory's OH&S conditions and GGTI safety review indicate exposure is unlikely. The substance is bound inside the final product and only exist in a very low amount. The substance will not leach and be exposed to the end user. Therefore it is unlikely to pose any hazard to the end user.</p> <p>Belgotex has an environmental policy in place with a commitment to prevent pollution in all forms. Toxic substances will not be discharged into waterways, or they will be treated prior to discharge.</p> <p>Belgotex has OHS policy in place. Belgotex is ISO14001, and ISO45001 certified.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Octojet 30 Black								
Pigment Blue(Carbon Black)	1333-86-4	0.01-0.1	IARC 2B	OK				<p>If inhaled, the substance is possibly carcinogenic to humans.</p> <p>The factory's OH&S conditions and GGTI safety review indicate exposure is unlikely. The substance is bound inside the final product. Furthermore, the concentration of the substance in the final product is very low. Therefore it is unlikely to pose any hazard to the end user.</p> <p>Belgotex has OH&S policy in place. Belgotex is ISO14001, and ISO45001 certified.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Water	7732-18-5	0.01-0.1	None	OK				<p>Water is non hazardous.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Thickener Sav T 45								
Proprietary	Thickener	0.01-0.1	None	OK				<p>The substance is declared non hazardous.</p> <p>Recycled Content: Unknown Nanomaterials: Unknown</p>
Bitumen Compound								
Bitumen 50/70								

Asphalt	8052-42-4	10-20	None	OK				The substance is non hazardous. Recycled Content: Unknown Nanomaterials: Unknown
Filler Kulu 15								
Calcium Carbonate	471-34-1	40-60	H315, H319	OK				If exposed to the skin and eyes, the substance can cause skin and eye irritation. The factory's OH&S conditions and GGTI safety review indicate exposure is unlikely. Calcium carbonate is only harmful in its concentrated or crystal form. In use, the substance is bound inside the final product. The end user is not exposed to the raw ingredient. Therefore it is unlikely to pose any hazard to the end user. Belgotex has OH&S policy in place. Belgotex is ISO14001, and ISO45001 certified. Recycled Content: Unknown Nanomaterials: Unknown
Magnesium Carbonate	546-93-0	1-5	None	OK				The substance is non hazardous. Recycled Content: Unknown Nanomaterials: Unknown
Proprietary	Filler	1-5	None	OK				The substance is non hazardous. Recycled Content: Unknown Nanomaterials: Unknown
Sasobit								
Complex combination of hydrocarbons obtained from Fisher-Tropsch synthesis	8002-74-2	0.1-1	None	OK				The substance is non hazardous. Recycled Content: Unknown Nanomaterials: Unknown
Kuhmo KTR 401								
Styrene-Butadiene-Styrene Block Copolymer	9003-55-8	0.1-1	None	OK				The substance is non hazardous. Recycled Content: Unknown Nanomaterials: Unknown
Secondary Backing								
CARPETTEX 500 - PES								
Polyethylene terephthalate	25038-59-9	5-10	None	OK				The substance is non hazardous. Recycled Content: Unknown Nanomaterials: Unknown
Titaniumdioxide	13463-67-7	0.01-0.1	H351	OK				If exposed, the substance is suspected of causing cancer. The most common route of exposure to titanium dioxide is inhalation. The factory's OH&S conditions and GGTI safety review indicate exposure is unlikely. In use, the substance is bound inside the final product and only exists in a very low amount. Furthermore, the substance is part of the backing component, and the yarn will fully cover the backing. Therefore it is unlikely to pose any hazard to the end user. Belgotex has OH&S policy in place. Belgotex is ISO14001, and ISO45001 certified. Recycled Content: Unknown Nanomaterials: Unknown

IARC3 : Not classifiable as to its carcinogenicity to human
IARC2B : Possibly carcinogenic to human
H315 : Causes skin irritation
H318 : Causes serious eye damage
H319 : Causes serious eye irritation
H332 : Harmful if inhaled
H351 : Suspected of causing cancer
H400 : Very toxic to aquatic life
H411 : Toxic to aquatic life with long lasting effects
H412 : Harmful to aquatic life with long lasting effects

Comments:

VOC emissions meets Green Building Council Australia, Green Building Council South Africa and Global Greentag Standard v4.0 requirement:

VOC content: TVOC mg/m2/hr for product applied on site is <0.5 mg/m2/hr measured using Test method ASTM D5116 "Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Material/Products". Sample tested in June 2022 at FORAY Laboratories - NATA Accredited. Test approved by CETEC.