GLOBAL GREEN TAG INTERNATIONAL PTY LTD

PHD™ Product Health Declaration

GLOBAL GREENTAG HEALTH RATE
Platinum HEALTH
CERT TM
trust brands™

Island Block & Paving

Bricks for the Future, Blocks for the Future, Pavers for the Future, Freestone Eco Retaining Wall System

Island Block & Paving's Blocks for the Future, Bricks for the Future, Pavers for the Future, and Freestone Eco Retaining Wall System are manufactured with recycled glass aggregate, which is a by-product derived from recycled glass container bottles.

Products/Ranges:	Bricks/Blocks/Pavers for the Future, Freenstone Eco Retaining Wall
Product Stages Assessed:	Raw material, manufacturing, in-use
CSI Masterformat:	04 21 13 Brick Masonry, 09 63 13 Brick Flooring
Licenced Site/s:	Tasmania, Australia
Licence Number:	IBP- 001-A-2019
Licence Date:	18th October 2019
Valid To:	18th October 2020
Standard:	GGT International v4.0
Screening Date:	18th October 2019
PHD URL:	globalgreentag.com/wp-content/uploads/2019/11/191107_IBP_Future range products_PHD_Secured_v2

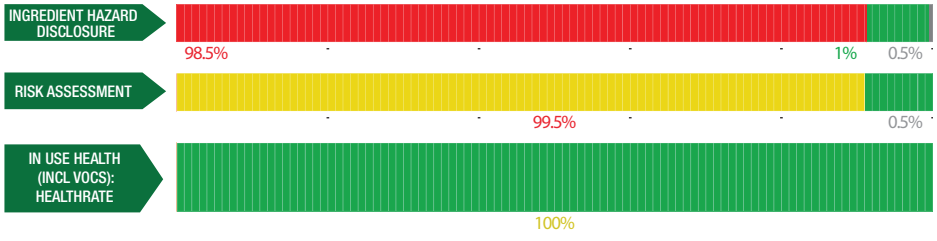
This PHD ceases currency when original GreenTag GreenRate certification expires or is revoked.
Please check www.globalgreentag.com for currency. Note disclaimer over.

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

- GreenTag Banned List Compliant
- Meets LEED® v4.0 and v4.1 credit MR: Building product disclosure and optimization - material ingredients - Option 1 and Option 2
- Meets WELL™ v1.0 Features - 11: Fundamental Material - Part 1c, 26: Enhanced Material Safety, 97: Material Transparency and WELL™ v2.0 Features - X01: Fundamental Material Precautions - Part 1c, X10 Volatile Compound Reduction, X13: Enhanced Material Precaution, X14: Material Transparency
- Low worker exposure to Carcinogens, Mutagens, Reproductive Toxicants or Endocrine Disruptors
- Low user exposure to Carcinogens, Mutagens, Reproductive Toxicants or Endocrine Disruptors

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

ASSESSMENT:



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:

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) 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	**Ideal- Low** No Comment required
Yellow	**Medium to Low** No Comment, or 'Issue of Concern' required depending on % of ingredient.
Orange	**Moderate** 'Issue of Concern' or 'Red Light' Comment depending on % of ingredient. Limit 10%
Red	**Problematic (Red): Target for Phase** 'Issue of Concern' or 'Red Light' Comment depending on % of ingredient. Strict Upper Limit of 1%
Grey	**Uncategorised** Not able to be categorised due to lack of toxicity impact information.
Black	**Banned Ingredients** POPs, SVHCs plus a wide range of compounds depending on specific Standard requirements

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
Natural Sand							
Crystalline Silica	14808-60-7	54-60%	STOT RE 1, STOT RE 2, Carc. 1A, Acute Tox. 4				The risks associated with crystalline silica relates only to inhaled dust. The manufacturer of bricks/blocks/pavers are AS/NZS 4801: 2001 OH&S Management Systems and are hence independently certified for safe work conditions. Once the ingredients are mixed, set and installed, any risk to end-users is virtually non existent. In a workplace context, when such products are cut, drilled, abraded, polished or crushed, an approved dust mask or air filtration is required. Recycled Content: None Nanomaterials: No

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
Post-consumer recycled glass							
Crystalline Silica	14808-60-7	36-40%	STOT RE 1, STOT RE 2, Carc. 1A, Acute Tox. 4				The risks associated with crystalline silica relates only to inhaled dust. The manufacturer of bricks/blocks/pavers are AS/NZS 4801: 2001 OH&S Management Systems and are hence independently certified for safe work conditions. Once the ingredients are mixed, set and installed, any risk to end-users is virtually non existent. In a workplace context, when such products are cut, drilled, abraded, polished or crushed, an approved dust mask or air filtration is required. Recycled Content: Post-consumer recycled Nanomaterials: No
General Purpose Cement							
Portland Cement Clinker	65997-15-1	7-10%	Skin Irrit. 2, Skin Sens. 1B, Skin Sens. 1B, STOT SE 3				The routes of exposure to risks are dermal contact and inhalation. The manufacturer of bricks/blocks/pavers are AS/NZS 4801: 2001 OH&S Management Systems and are hence independently certified for safe work conditions. Once the ingredients are mixed, set and installed, any risk to end-users is virtually non existent. In a workplace context, when such products are cut, drilled, abraded, polished or crushed, personal protection equipments are required. Recycled Content: None Nanomaterials: No
Gypsum	7778-18-9	0.5-1%	None				Recycled Content: None Nanomaterials: No
Limestone	1317-65-3	0.5-1%	None				Recycled Content: None Nanomaterials: No
Fly ash	68131-74-8	0.5-1%	None				Recycled Content: None Nanomaterials: No
Magnesium Oxide	1309-48-4	0.5-1%	None				Recycled Content: None Nanomaterials: No
Ground Blast Furnace Slag	65996-69-2	0.1-0.5%	None				Recycled Content: None Nanomaterials: No
Crystalline Silica	14808-60-7	0.05-0.1%	STOT RE 1, STOT RE 2, Carc. 1A, Acute Tox. 4				The risks associated with crystalline silica relates only to inhaled dust. The manufacturer of bricks/blocks/pavers are AS/NZS 4801: 2001 OH&S Management Systems and are hence independently certified for safe work conditions. Once the ingredients are mixed, set and installed, any risk to end-users is virtually non existent. In a workplace context, when such products are cut, drilled, abraded, polished or crushed, an approved dust mask or air filtration is required. Recycled Content: No Nanomaterials: No
Colourant							
Declaration	Pigment	0.1-0.5%	None				Recycled Content: None 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
Block Emulsion Liquid							
Mixture	Water repellent	0.08-0.1%	Skin Irrit. 2, Eye Irrit. 2, Flammable				The routes of exposure to risks are dermal contact and inhalation. The manufacturer of bricks/blocks/pavers are AS/NZS 4801: 2001 OH&S Management Systems and are hence independently certified for safe work conditions. Once the ingredients are mixed, set and installed, any risk to end-users is virtually non existent. Recycled Content: None Nanomaterials: No
Declaration	Additive	0.01-0.05%	None				Recycled Content: None Nanomaterials: Unknown
Masonry admixture							
Declaration	Additive	<0.01%	None				Recycled Content: None Nanomaterials: Unknown
Sodium dodecylbenzene sulfonate	25155-30-0	<0.01%	Eye Dam. 1, Carc. 2, Skin Irrit. 2				The routes of exposure to risks are dermal contact and inhalation. The manufacturer of bricks/blocks/pavers are AS/NZS 4801: 2001 OH&S Management Systems and are hence independently certified for safe work conditions. Once the ingredients are mixed, set and installed, any risk to end-users is virtually non existent. Recycled Content: None Nanomaterials: No

Comment: Chromium VI is a trace impurity in portland cement. According to the lab analysis report, the amount is below 2ppm.