



IEdiSA Graphenstone® Mineral Paints & Primers

Scope of Range: Mineral Paints & Primers*
Life Cycle Assessed: Manufacturing, in use and end of life

Licenced Site/s: Sevilla, Spain
Licence Number: GRA-001-v2-2017
Licence Date: 3 October 2017
Valid To: 3 October 2020
Standard: GGT International v4.0
Assessment Year: October 2017



This PhD ceases currency when original GreenTag GreenRate/LCARate certification expires or is revoked. Please check www.globalgreentag.com for currency.

The Global GreenTag Product Health Declaration has been designed to provide an additional level of service to the green product sector in facilitating an easier industry understanding of both the health hazard and risk (if any) associated with any certified product/s.

* Ecosphere Premium; Biosphere Premium; GCS Interior Premium; GCS Exterior Premium; Filler F10 Premium; Filler F20 Premium; Stuki Premium; Ambient Pro+ Premium; Füllmasse Premium; Kratzputz Premium

PhD Summary

Percentage Assessed:

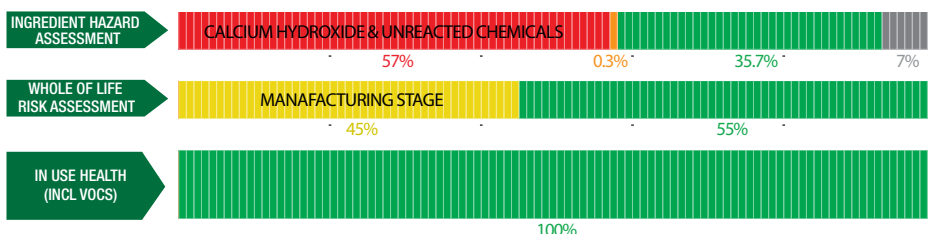
100%

Declaration Limit:

100ppm

- GreenTag Banned List Compliant
- Meets Indoor Air Quality VOC emission requirements, for Green Star, LEED & BREEAM
- Contributes towards satisfying Feature 04 VOC Reduction Part 1 Interior Paints and Coatings, Feature 25 Toxic Material Reduction Part 1 Perfluorinated Compound Limitation, Feature 26 Enhanced Material Safety Part 1 Precautionary Material Selection, and Feature 97 Material Transparency Part 1 Material Information, under the WELL Building Standard™
- Very low WORKER exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors
- Very low USER exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors
- Very low ENVIRONMENTAL exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors

MANUFACTURING, IN USE, & END OF LIFE STAGES
 % by mass. See over for explanation.



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	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	Function and details	GHS, IARC and Endocrine Category	Hazard Assessment (Raw)	Finished Product Assessment	Comment
Calcium Dihydroxide	Natural binder with graphene. Used as base of the paint and to include whiteness and coverage.	Eye Dam. 1 Skin Irrit. 2 STOT SE 3			Calcium dihydroxide can be irritating to the skin and by inhalation and can damage they eyes. Once reacted in the product, this substance is not expected to cause harm for the user. The manufacturer of the paints and primers operates under an Occupational Health and Safety System and therefore risks are considered low at the manufacturing stage.
Water	Used to liquify paint	Not Classified			None
Graphene	Improves water resistance, flexibility, durability, thermal conductivity, wet scrub resistance, and adhesion.	None			None
Mineral Filler	Used as filler and to include wet scrub resistance, weahtering protection, and texture.	Not Classified			None
Mineral Filler	Used as filler and to include wet scrub resistance, weahtering protection, and texture.	IARC Cat. 3			This mineral filler is classified as not classifiable as carcinogenic to humans.

Ingredient Name	Function and details	GHS, IARC and Endocrine Category	Hazard Assessment (Raw)	Finished Product Assessment	Comment
Mineral Filler	Used as filler and to include wet scrub resistance, weahtering protection, and texture.	IARC Cat.1 STOT RE 1 STOT RE 2 Carc. 1A			When inhaled, this mineral filler can cause lung cancer under long term occupational exposure and during manufacture. Once reacted in the product, this substance is not expected to cause harm for the user. The manufacturer of the paints and primers operates under an Occupational Health and Safety System and therefore risks are considered low at the manufacturing stage.
Paint Additive	Used as stabilizer, dispersant, viscosity and rheology modifier.	Skin Irrit. 2 Eye Irrit. 2 STOT SE 3			This paint additive can irritate the eyes, skin and respiratory system. It is not expected to cause harm for the user.
Paint Additive	Used as stabilizer, dispersant, viscosity and rheology modifier.	Skin Corr. 1A Eye Dam. 1 Acute Tox. 4 Not Classified			This paint additive can be harmful if swallowed, can cause serious eye damage and can cause severe skin burns. Once reacted in the product, this substance is not expected to cause harm for the user. The manufacturer of the paints and primers operates under an Occupational Health and Safety System and therefore risks are considered low at the manufacturing stage.
Paint Additive	Used as stabilizer, dispersant, viscosity and rheology modifier.	Skin Corr. 1A Met. Corr. 1 Eye Dam. 1 Not Classified			This paint additive is corrosive to metals, an cause serious eye damage and can cause severe skin burns. Once reacted in the product, this substance is not expected to cause harm for the user. The manufacturer of the paints and primers operates under an Occupational Health and Safety System and therefore risks are considered low at the manufacturing stage.
Paint Additive	Used as stabilizer, dispersant, viscosity and rheology modifier.	Eye Irrit. 2 Not Classified			This paint additive can irritate the eyes. It is not expected to cause harm for the user.
Coloured pigments	Colour	Skin Irrit. 2 Eye Dam. 1 Aquatic Chronic 3 Skin Corr. 1C Aquatic Chronic 2 Eye Irrit. 2 Not Classified			Some colourants used in the product can cause serious eye damage and skin burns, can cause skin and eye irritation, and are toxic to aquatic life with long lasting effects. Once reacted in the product, this substance is not expected to cause harm for the user. The manufacturer of the paints and primers operates under an Occupational Health and Safety System and therefore risks are considered low at the manufacturing stage. NOTE: Some pigments used in the paint are toxic to aquatic life with long lasting effects. It is advised to not dispose leftover paint through the sewage system or in nature.
White pigments	Used for photocatalytic reaction.	IARC Cat. 2B			This pigment is classified as possibly carcinogenic to humans. Once reacted in the product, this substance is not expected to cause harm for the user. The manufacturer of the paints and primers operates under an Occupational Health and Safety System and therefore risks are considered low at the manufacturing stage.

Comments: The product has been tested for chemical emissions and can be classed as a low-VOC product.