GLOBAL GREEN TAG INTERNATIONAL PTY LTD

PHD™
Product Health Declaration

Global GreenTag CertTM Certified
PLATINUM HEALTH
HealthRate™

Dulux Australia

Dulux EnvirO2 Interior Semi Gloss White

Dulux Enviro2 Interior Semi Gloss is a washable, hardwearing acrylic product that provides a semi gloss finish for interior walls in general living and wet areas. This product has characteristics of low odour and low VOC emissions. The product also has antimould properties which will help prevent the growth of mould and mildew.

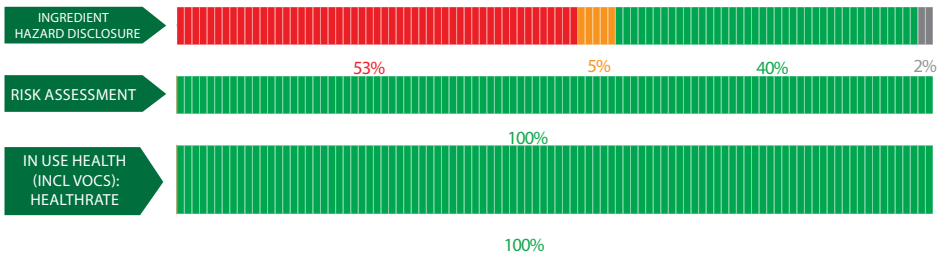
Products/Ranges:	EnvirO2 Interior Semi Gloss White
Product Stages Assessed:	Material inputs, manufacturing, in-use
CSI Masterformat:	09 91 00 Painting
Licenced Site/s:	Victoria, Australia
Licence Number:	DUL:EI05:2023:PH
Licence Date:	31st December 2019
Valid To:	1st October 2025
Standard:	GGT International standard v4.0
Screening Date:	20th September 2023
PHD URL:	https://www.globalgreentag.com/certificate/2321/

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; 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 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 3); X06 (Part 1); X07 (Part 2); X08 (Part 1).
- Meets USGBC LEED ° v4.0 and v4.1 Rating Tool Credit, MR Credit: Building Product Disclosure and Optimisation - Material Ingredients - Option 1: Material Ingredient Reporting, 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.

ASSESSMENT:

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



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:

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) 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

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	REACH Compliance	Ingredient Assessment	Whole Of Life Assessment	In Use Health Assessment	Comment
Additive								
Neutralizing Amine	Additive	0.1-1%	None	OK				Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Foam Control								
White mineral oil (petroleum)	8042-47-5	0.1-1%	H304	OK				Once applied the notified ingredient together with its preservatives/biocides will be incorporated in a hard, durable, inert film and will not present a significant hazard. Any fragments, chips and flakes of the paint will be of little concern as they are expected to be inert. No identifiable risk to end user. Recycled Content: None Nano Materials: No
Precipitated synthetic amorphous silica	112926-00-8	<0.1%	H330 , H372 H332 , H318 H335	OK				Once applied, this ingredient in the foam control will be incorporated in a hard, durable, inert film and will not present a significant hazard. Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Diethylenetriamine	111-40-0	<0.1%	H312 , H302 H314 , H317	OK				Once applied, this ingredient in the foam control will be incorporated in a hard, durable, inert film and will not present a significant hazard. Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Proprietary	Additive	0.1-1%	None	OK				Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Thinner								
Isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	25265-77-4	1-5%	H319, H315 H335, H412	OK				Thinner solvents present risk such as VOC to indoor air quality however, as noted from the total voc of the final product, this is lower than the limits set by the GBCA and LEED. In terms of chronic exposure risks, this is minimised because when the paint is applied and dried, the inert nature of thinner does not present any health risk. Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Proprietary	Additive	<0.1%	None	OK				Thinner aaditives - In terms of chronic exposure risks, this is minimised because when the paint is applied and dried, the inert nature of thinner does not present any health risk. Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Tripropylene Glycol								
Tripropylene glycol	24800-44-0	0.1-1%	None	OK				Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Dipropylene glycol	25265-71-8	<0.1%	None	OK				Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	REACH Compliance	Ingredient Assessment	Whole Of Life Assessment	In Use Health Assessment	Comment
Modifier								
Hydrophobically modified ethylene oxide urethane	Rheology modifier	0.1-1%	None	OK				Once applied, this rheology modifier will be incorporated in a hard, durable, inert film and will not present a significant hazard. Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Surfactant								
Alcohols, C11-15-secondary, ethoxylated	68131-40-8	0.1-1%	H412	OK				Once applied, this surfactant will be incorporated in a hard, durable, inert film and will not present a significant hazard. Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Water	7732-18-5	<0.1%	None	OK				Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Poly(ethylene oxide)	25322-68-3	<0.1%	H335	OK				Once applied, this surfactant ingredient will be incorporated in hard, durable, inert film and will not present a significant hazard. Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Modifier								
Hydrophobically modified ethylene oxide urethane	Rheology modifier	1-5%	None	OK				Once applied, this rheology modifier will be incorporated in a hard, durable, inert film and will not present a significant hazard. Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Modifier								
Non-ironic urethane	Rheology modifier	0.1-1%	None	OK				Once applied, this rheology modifier will be incorporated in a hard, durable, inert film and will not present a significant hazard. Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Dispersant								
Hydrophobic Copolymer	Waterborne pigment dispersant	0.1-1%	None	OK				Once applied, this dispersant will be incorporated in a hard, durable, inert film and will not present a significant hazard. Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Emulsion								
Acrylic polymer	Emulsion	40-50%	None	OK				Once applied, this acrylic polymer will be incorporated in a hard, durable, inert film and will not present a significant hazard. Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Water								

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	REACH Compliance	Ingredient Assessment	Whole Of Life Assessment	In Use Health Assessment	Comment
Dosed Water	Diluent	10-20%	None	OK				Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: no
Surfactant								
Non ionic surfactant	Surfactant	0.1-1%	H400	OK				Once applied, this surfactant will be incorporated in a hard, durable, inert film and will not present a significant hazard. Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: unknown
Dispersing agent								
Polymer	Dispersing agent	0.01-1%	H319, H332 H318, H315	OK				Once applied the notified polymer together with its preservatives/biocides will be incorporated in a hard, durable, inert film and will not present a significant hazard. Any fragments, chips and flakes of the paint will be of little concern as they are expected to be inert. No identifiable risk to end user. Recycled Content: None Nano Materials: No
Remaining Proprietary	Dispersing agent	0.01-1%	None	OK				Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: Yes
Calcium Carbonate								
Limestone	Extender	1-5%	None	OK				Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: Yes
Additive								
Industrial Microbiocide	Biocide	0.1-1%	None	OK				Once applied, this biocide will be incorporated in hard, durable, inert film and will not present a significant hazard. Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: no
Pigment								
Titanium dioxide	Pigment	15-30%	None	OK				Their is no identifiable risk to the end user. Recycled Content: Unknown Nanomaterials: Yes

GHS H-Statements:
H302 (Harmful if swallowed)
H312 (Harmful in contact with skin)
H314 (Cause skin/eye damage)
H315 (Causes skin irritation)
H317 (Allergic reaction)
H318 (may cause eye damage)
H319 (Causes serious eye irritation)
H330 (Fatal if inhaled)
H332 (Harmful if inhaled)
H335 (May cause respiratory irritation)
H372 (may cause organ damage)
H400 (Aquatic toxicity)
H412 (Harmful to aquatic life with long lasting effects)

Comments:
VOC content: VOC g/L for Dulux Enviro2 Semi Gloss White applied on site is < 1g/L ready to use product calculated in accordance with the stated methodology within Green Star technical manual. The TVOC content of the 'ready-to-use' paint shall be theoretically calculated as the sum total of VOCs of each of the raw material components comprising the paint. Calculations submitted on 26/09/2023 by Dulux Australia.