GLOBAL GREEN TAG INTERNATIONAL PTY LTD

PHD™
Product Health Declaration

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Dulux New Zealand

Dulux EnvirO2 Interior Water Based Enamel Semi Gloss

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.

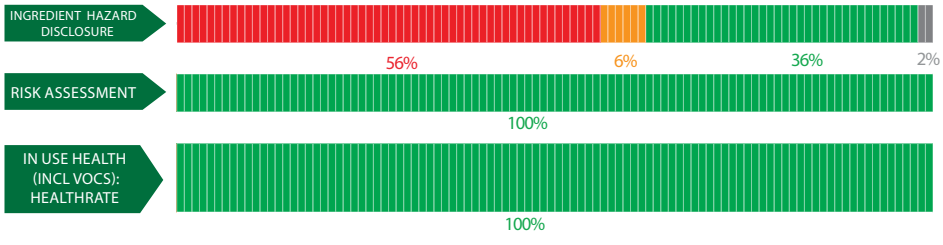
Products/Ranges:	EnvirO2 Interior Semi Gloss White
Product Stages Assessed:	Material inputs, manufacturing, in-use
CSI Masterformat:	09 91 00 Painting
Licenced Site/s:	Lower Hutt, New Zealand
Licence Number:	DUN:EI04:2024:PH
Licence Date:	8th December 2020
Valid To:	8th December 2024
Standard:	GGT International v4.0
Screening Date:	2nd February 2024
PHD URL:	https://www.globalgreentag.com/certificate/1398/

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' as Recognized for Credit 9: Responsible Finishes; as a Compliant Technical Document (Audited) for Credit 13: Exposure to Toxins, and '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 as Recognized for MR Credit: Building Product Disclosure and Optimisation - Material Ingredients- Option 1: Material Ingredient Reporting, Option 2: International ACP - REACH Optimisation.
- Highly unlikely 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 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.
Red	Problematic (Red): Target for Phase 'Issue of Concern' or 'Red Light' Comment depending on % of ingredient.
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
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				No identifiable risk to end user. Recycled Content: None Nano Materials: No
Foam Control								
White mineral oil (petroleum)	8042-47-5	0.1-1%	None	OK				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				The ingredient may cause eye and respiratory irritation if exposed for longer period. Dulux NZ ensures proper PPE usage for the workers.Once applied, this ingredient in the foam control will be incorporated in a hard, durable, inert film and will not present a significant hazard. No identifiable risk to end user. Recycled Content: Unknown Nanomaterials: unknown
Diethylenetriamine	111-40-0	<0.1%	H312, H302 H314, H317	OK				The ingredient may cause damage to skin & eyes. Duluz NZ is 14001 certifed which ensure propre PPE usage. Once applied, this ingredient in the foam control will be incorporated in a hard, durable, inert film and will not present a significant hazard. No identifiable risk to end user. Recycled Content: Unknown Nanomaterials: unknown
Proprietary	Additive	0.1-1%	None	OK				No identifiable risk to end user. Recycled Content: None Nano Materials: No
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. No identifiable risk to 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. No identifiable risk to end user. Recycled Content: Unknown Nanomaterials: unknown
Additive								
Polyethylene glycol	25322-68-3	0.1-1%	None	OK				No identifiable risk to end user. Recycled Content: None Nano Materials: No
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. No identifiable risk to 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
Surfactant								
Alcohols, C11-15-sec-ondary, ethoxylated	68131-40-8	0.1-1%	H319, H315, H335 , H412	OK				Once applied, this surfactant will be incorporated in a hard, durable, inert film and will not present a significant hazard. No identifiable risk to end user. Recycled Content: Unknown Nanomaterials: unknown
Water	7732-18-5	<0.1%	None	OK				No identifiable risk to end user. Recycled Content: None Nano Materials: No
Poly(ethylene oxide)	25322-68-3	<0.1%	H319, H315, H335 , H412	OK				Once applied, this surfactant ingredient will be incorporated in hard, durable, inert film and will not present a significant hazard. No identifiable risk to end user. Recycled Content: Unknown Nanomaterials: unknown
Modifier								
Hydrophobically modified ethylene oxide urethane	Rheology modifier	1-5%	H317, H413	OK				Once applied, this rheology modifier will be incorporated in a hard, durable, inert film and will not present a significant hazard. No identifiable risk to end user. Recycled Content: Unknown Nanomaterials: unknown
Modifier								
Non-ironic urethane	Rheology modifier	0.1-1%	H317, H413	OK				Once applied, this rheology modifier will be incorporated in a hard, durable, inert film and will not present a significant hazard. No identifiable risk to end user. Recycled Content: Unknown Nanomaterials: unknown
Dispersant								
Hydrophobic Copo-lymer	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. No identifiable risk to end user. Recycled Content: Unknown Nanomaterials: unknown
Emulsion								
Acrylic polymer	Emulsion	40-50%	H413	OK				Once applied, this acrylic polymer will be incorporated in a hard, durable, inert film and will not present a significant hazard. No identifiable risk to end user. Recycled Content: Unknown Nanomaterials: unknown
Water								
Dosed Water	Diluent	10-20%	None	OK				No identifiable risk to end user. Recycled Content: None Nano Materials: No
Surfactant								
Non ionic surfactant	Surfactant	0.1-1%	H413	OK				Once applied, this surfactant will be incorporated in a hard, durable, inert film and will not present a significant hazard. No identifiable risk to end user. Recycled Content: Unknown Nanomaterials: unknown
Plasticiser								

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
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-Ethane-1,2-diol, ethoxylated	Plasticiser	0.1-1%	None	OK				No identifiable risk to end user. Recycled Content: None Nano Materials: No
Calcium Carbonate								
Limestone	Extender	1-5%	None	OK				No identifiable risk to end user. Recycled Content: None Nano Materials: No
Additive								
Industrial Microbiocide	Biocide	0.1-1%	H315, H319 H413	OK				The ingredient may cause skin, eye irritation. Also it can have detrimental impact to aqueous solution. Once applied, this biocide will be incorporated in hard, durable, inert film and will not present a significant hazard. No identifiable risk to end user. Recycled Content: Unknown Nanomaterials: no
Pigment								
Titanium dioxide	Pigment	15-25%	None	OK				No identifiable risk to end user. Recycled Content: None Nano Materials: No

GHS H-Statement classification:
H302/H304 (Fatal if swallowed)
H311 (Toxic skin contact)
H314(skin/eye damage)
H315 (Skin irritation)
H317 (Allergic skin reacion)
H318(Eye damage)
H317(Allergic skin reaction)
H330 (Fatal if inhaled)
H332 (Harmful if inhaled)
H350 (May cause cancer)
H373 (May cause organ damage)
H400/H413 (Very toxic to aquatic life)

Comments:
VOC emissions: Global GreenTag International Program Standard v4.0 Formaldehyde Content Supplementary Standard in accordance with requirements of the New Zealand Green Building Council and LEEDv4, as updated from time to time.
VOC content: VOC g/L for Dulux Enviro2 Interior ASU applied on site is < 3g/L ready to use product calculated in accordance with the stated methodology within Green Star NZ 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 25/10/2023 by Dulux New Zealand.