

PHD™

Product Health Declaration



Dulux New Zealand

Dulux Enviro2 Interior Ceiling Flat

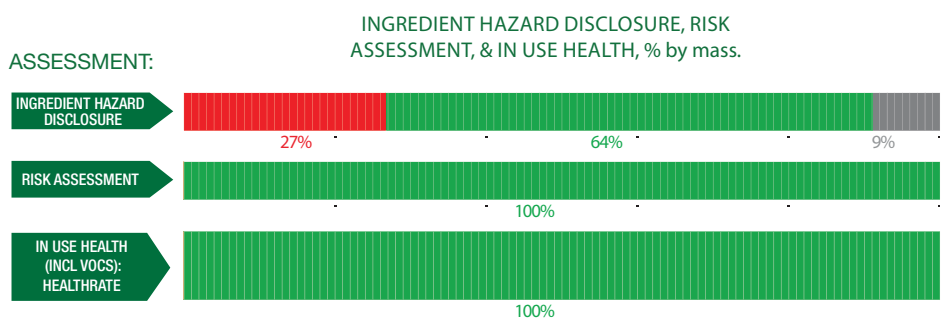
Dulux Enviro2 Interior Ceiling Flat has characteristics of low odour and low VOC emissions. This is specifically designed for use on ceilings. This acrylic paint has high opacity and a flat finish to help hide minor surface imperfections and produce an even finish.

Products/Ranges: Dulux New Zealand Enviro2 Interior
Product Stages Assessed: Material inputs, manufacturing, in-use
CSI Masterformat: 09 91 00 Painting
Licensed Site/s: Lower Hutt, New Zealand
Licence Number: DUN:EI02:2020:PH
Licence Date: 8th December 2020
Valid To: 8th December 2023
Standard: GGT International v4.0
Screening Date: 24th November 2020
PHD URL: <https://www.globalgreentag.com/getfile/12743/phd.pdf>



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

- GreenTag Banned List Compliant.
- Meets "Green Cleaning" requirements for Green Star®.
- 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.



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 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

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	Ingredient Assessment	Whole Of Life Assessment	In Use Health Assessment	Comment
Binder							
Tylose	Binder	0.1-1%	None				No comment Recycled Content: Unknown Nanomaterials: unknown
Additive							
Neutralizing Amine	Additive	0.1-1%	None				None Recycled Content: Unknown Nanomaterials: unknown
Foam Control							

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment	Whole Of Life Assessment	In Use Health Assessment	Comment
White mineral oil (petroleum)	8042-47-5	0.1-1%	None				None Recycled Content: Unknown Nanomaterials: unknown
Precipitated synthetic amorphous silica	112926-00-8	<0.1%	STOT 3. Eye Irrit 2A				Once applied, this ingredient in the foam control will be incorporated in a hard, durable, inert film and will not present a significant hazard Recycled Content: Unknown Nanomaterials: unknown
Diethylenetriamine	111-40-0	<0.1%	Acute Aq Tox 3. Acute Tox 4 Acute Tox 2 Skin Corr 1B Skin Sens 1				Once applied, this ingredient in the foam control will be incorporated in a hard, durable, inert film and will not present a significant hazard Recycled Content: Unknown Nanomaterials: unknown
Proprietary	Additive	0.1-1%	None				None Recycled Content: Unknown Nanomaterials: unknown
Thinner							
Isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	25265-77-4	1-5%	Eye Irrit. 2 Aq Chron 3 Skin Irrit. 2 STOT SE 3				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. Recycled Content: Unknown Nanomaterials: unknown
Proprietary	Additive	<0.1%	None				Thinner additives - 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. Recycled Content: Unknown Nanomaterials: unknown
Polyethylene Glycol							
Polyethylene glycol	25322-68-3	1-5%	STOT SE 3 Eye Irrit 2				None Recycled Content: Unknown Nanomaterials: unknown
Modifier							
Non-ionic urethane	Rheology modifier	0.1-2%	None				Once applied, this rheology modifier will be incorporated in a hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: unknown
Dispersant							
polycarboxylic acid	Waterborne pigment dispersant	0.1-1%	None				Once applied, this dispersant will be incorporated in a hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: unknown
Binder							

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment	Whole Of Life Assessment	In Use Health Assessment	Comment
Optima T	Binder	10-20%	Skin Irrit 2. Skin Corr 1B Skin Corr 1A. Acute Tox 4 Eye Irrit 2A Tox Repr 2 STOT RE 2 Asp Haz 1 Acute Aq Tox 1				Exposure to this component in the binder may occur during paint stripping from wood and metal surfaces. However, once applied, the binder is bound in the hard durable inert film and will not pose significant hazards. Recycled Content: Unknown Nanomaterials: unknown
Water							
Dosed Water	Diluent	30-40%	None				None Recycled Content: Unknown Nanomaterials: no
Surfactant							
Non ionic surfactant	Surfactant	0.5-1%	Acute Aq Tox 1				Once applied, this surfactant will be incorporated in a hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: unknown
Calcium Carbonate							
Limestone	Extender	1-5%	None				None Recycled Content: Unknown Nanomaterials: Yes
Perlite							
Perlite	Filler	5-10%	Resp Sens 1. Skin Sens 1				Once applied, this filler will be incorporated in hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: Yes
Talc							
Quartz	14808-60-7	0.1-1%	Carc 1A. STOT RE 2				Once applied, this pigment will be incorporated in hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: Yes
Proprietary	Filler	1-5%	None				Once applied, this filler will be incorporated in hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: Yes
Additive							
Industrial Microbiocide	Biocide	0.1-1%	None				Once applied, this biocide will be incorporated in hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: no
Binder							
Proprietary	Binder	2-5%	None				Once applied, this binder will be incorporated in hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: no
Modifier							

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment	Whole Of Life Assessment	In Use Health Assessment	Comment
Hydrophobically modified ethylene oxide urethane	Rheology modifier	0.1-2%	None				Once applied, this rheology modifier will be incorporated in a hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: unknown
Pigment							
Titanium dioxide	13463-67-7	10-20%	None				None Recycled Content: Unknown Nanomaterials: Yes
Biocide							
Antimicrobial micro-bicide	Biocide	0.1-1%	Acute Tox 4 Eye Dam. 1 Chron Aq Tox 1				Once applied, this biocide will be incorporated in hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: no

* No GHS H-Statement classification

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 < 1g/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 10/11/2020 by Dulux New Zealand. The VOC content also complies with limits set in the CDPH-IAQ V1.1 2010: Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers.