

# PHD™

## Product Health Declaration



Dulux Australia

## Dulux Enviro2 Interior Ceiling Flat

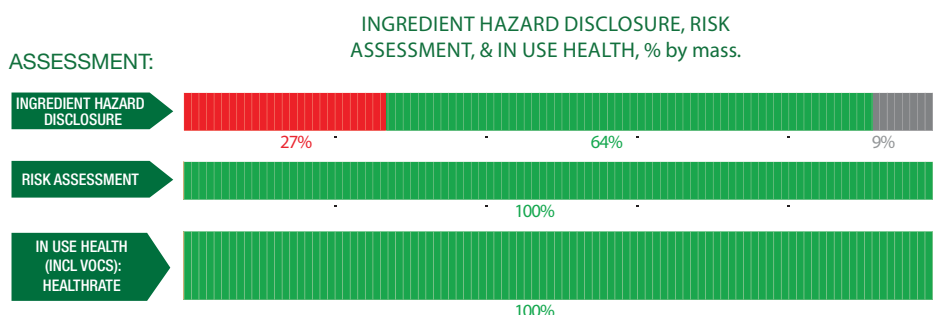
Dulux Enviro2 Interior Ceiling Flat has characteristics of low odour and low VOC emissions. This is specifically designed for use on ceilings. This acrylic paint has high opacity and a flat finish to help hide minor surface imperfections and produce an even finish.

<b>Products/Ranges:</b>	Dulux Enviro2 Interior
<b>Product Stages Assessed:</b>	Material inputs, manufacturing, in-use
<b>CSI Masterformat:</b>	09 91 00 Painting
<b>Licensed Site/s:</b>	Victoria, Australia
<b>Licence Number:</b>	DUL:EI02:2020:PH
<b>Licence Date:</b>	31st December 2019
<b>Valid To:</b>	1st October 2023
<b>Standard:</b>	GGT International v4.0
<b>Screening Date:</b>	31st December 2019
<b>PHD URL:</b>	<a href="https://www.globalgreentag.com/getfile/12768/phd.pdf">https://www.globalgreentag.com/getfile/12768/phd.pdf</a>



<b>PHD Summary</b>	<b>Inventory Threshold:</b>	<b>Inventory Method:</b>
Percentage Assessed: <b>100%</b>	100ppm Product Level	Nested Materials

- GreenTag Banned List Compliant.
- Product Meets Optimisation requirements ~ No Grey or Red Light category ingredient.
- 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.
- No worker, user, and environmental exposure to 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	<b>Ideal- Low</b> No Comment required
Yellow	<b>Medium to Low</b> No Comment, or 'Issue of Concern' required depending on % of ingredient.
Orange	<b>Moderate</b> 'Issue of Concern' or 'Red Light' Comment depending on % of ingredient.
Red	<b>Problematic (Red): Target for Phase</b> 'Issue of Concern' or 'Red Light' Comment depending on % of ingredient.
Grey	<b>Uncategorised</b> Not able to be categorised due to lack of toxicity impact information.
Black	<b>Banned Ingredients</b> 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
<b>Thinner</b>							
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
<b>Tripropylene Glycol</b>							
Tripropylene glycol	24800-44-0	1-5%	None				None Recycled Content: Unknown Nanomaterials: unknown
Dipropylene glycol	25265-71-8	<0.1%	None				None Recycled Content: Unknown Nanomaterials: unknown
<b>Modifier</b>							
Non-ironic 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
<b>Dispersant</b>							
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
<b>Binder</b>							

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 Green Building Council of Australia 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 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 30/03/2020 by Dulux Australia. 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. This is in reference to Certificate C 2005211-1 from BELL Laboratories, VIC, Australia.

Other relevant information as necessary