

PHDTM

Product Health Declaration



Armstrong Ceiling Solutions (Australia) Pty Ltd

METALWORKS® Ceilings & Walls

Armstrong Metalworks® ceilings and walls are designed to offer simple functionality and durability, combined with a contemporary aesthetic. The metal ceiling panels are available in a wide range of standard and custom sizes, profiles, perforation patterns and colours to provide visual impact and satisfy unique acoustical needs.

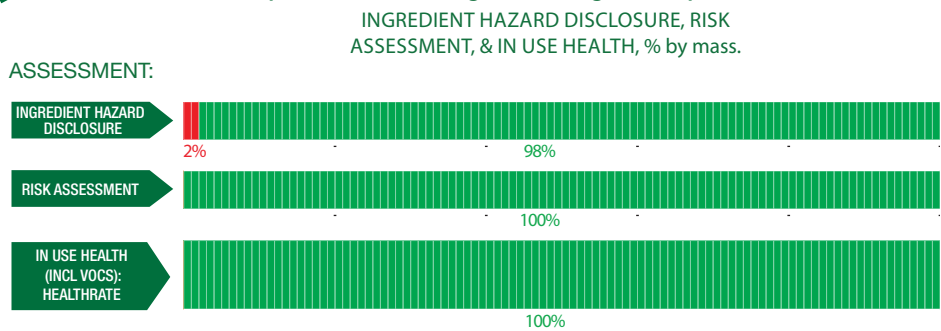
Products/Ranges:	Includes Soundtex Acoustical Scrim & Trioguard coating
Product Stages Assessed:	Whole of life
CSI Masterformat:	09 84 13 Fixed Sound Absorptive Panel
Licenced Site/s:	Suzhou, China
Licence Number:	AWI-006-v2-2018-PHD
Licence Date:	1st January 2020
Valid To:	20th February 2021
Standard:	GGT International v4.0
Screening Date:	25th September 2018
PHD URL:	https://www.globalgreentag.com/wp-content/uploads/2019/12/191218_AWI_Metalwork_PhD_Certificate_v9.pdf



This PHD ceases currency when original GreenTag GreenRate/LCARate certification expires or is revoked. Please check www.globalgreentag.com for currency. [Note disclaimer over.](#)

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

- ✔ GreenTag Banned List Compliant - Annex XVII of REACH, SVHC Candidate/Authorisation list in REACH
- ✔ Meets Indoor Air Quality VOC emission requirements, for Green Star®, & BREEAM®
- ✔ Meets USGBC LEED® v4.0 Rating Tool MR Credit: Building Product Disclosure and Optimisation - Material Ingredients - Option 2
- ✔ Meets WELL™ Building Standard: Enhanced Material Safety Feature 26 Part 1: Precautionary Material Selection
- ✔ No worker exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors
- ✔ No user exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors
- ✔ No 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 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

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 (Raw)	Whole Of Life Assessment	In Use Health Assessment	Comment
Steel							
Hot dip zinc iron alloy coated steel	Architectural metalwork	90-99%	*				Components of this alloy are naturally occurring and do not pose risks to end-users of products due to unreactive nature in use. Recycled Content: Unknown Nanomaterials: No
Acoustic Fleece							
Acoustic fleece	backing	1-5%	*				None Recycled Content: Unknown Nanomaterials: Yes
Powdercoating							

Titanium dioxide	pigment	0.5-5%	Carc. 2 Acute Tox 4 Eye Irrit 2 STOT SE 3 STOT RE 1 STOT SE 2 Carc. 1B Skin Irrit. 2 Aq Chron 4				In use, the titanium dioxide is embedded in the product and upon the powder coating being cured, the chance of it being released is non-existent Recycled Content: Unknown Nanomaterials: unknown
benzothiazole-2-thiol	fungicide	0.01-1%	Acute Aq Tox 1 Skin Sens 1				In use, this fungicide is embedded in the product through the curing of the powdercoating thus, the chance of it being released is non-existent Recycled Content: None Nanomaterials: unknown
Aluminium hydroxide	mordant	0.01-1%	Skin Irrit. 2 STOT 3 Acute Aq Tox 1				In use, this mordant is embedded in the product through the curing of the powdercoating thus, the chance of it being released is non-existent Recycled Content: Unknown Nanomaterials: unknown
Barium Sulphate	pigment	0.01-1%	STOT SE 1. STOT SE. 2. Skin Irrit. 2. STOT RE 2. STOT 3.				In use, this pigment is embedded in the product through the curing of the powdercoating thus, the chance of it being released is non-existent Recycled Content: Unknown Nanomaterials: unknown
Zinc di(benzothiazol-2-yl) disulphide	biocide	0.01-1%	Skin Sens. 1 Acute Aq Tox 3 STOT SE 1 STOT 3. Chr. Aq Tox 1				In use, this biocide is embedded in the product through the curing of the powdercoating thus, the chance of it being released is non-existent Recycled Content: None Nanomaterials: Yes / no / unknown
Proprietary	proprietary	0.5-5%	*				None Recycled Content: Unknown Nanomaterials: unknown
Trioguard powdercoating							
Titanium dioxide	pigment	0.5-5%	Carc. 2 Acute Tox 4 Eye Irrit 2 STOT SE 3 STOT RE 1 STOT SE 2 Carc. 1B Skin Irrit. 2 Aq Chron 4				In use, the titanium dioxide is embedded in the product and upon the powder coating being cured, the chance of it being released is non-existent Recycled Content: Unknown Nanomaterials: unknown
Polyester resin	binding agent	0.5-5%	*				None Recycled Content: Unknown Nanomaterials: unknown
Aluminium hydroxide	mordant	0.5-5%	Skin Irrit. 2 STOT 3 Acute Aq Tox 1				In use, this mordant is embedded in the product through the curing of the powdercoating thus, the chance of it being released is non-existent Recycled Content: Unknown Nanomaterials: unknown
Zinc borate	flame retardant additive	0.01-3%	Acute Aq 1				In use, this flame retardant additive is embedded in the product through the curing of the powdercoating thus, the chance of it being released is non-existent Recycled Content: Unknown Nanomaterials: unknown
Caprolactam	blocking agent additive	0.01-3%	Acute Tox. 4, Skin Irrit. 2. Eye Irrit. 2. STOT SE 3				In use, this blocking agent is embedded in the product through the curing of the powdercoating thus, the chance of it being released is non-existent Recycled Content: Unknown Nanomaterials: unknown
Amorphous Silica	Flattening agent	0.01-3%	Flam. Liq. 2. Eye Irrit. 2. Acute Tox. 4. STOT RE 2. Skin Corr. 1C. Skin Irrit. 2. Carc. 1B. Muta. 1B. Aq. chronic 3				In use, this flattening agent is embedded in the product through the curing of the powdercoating thus, the chance of it being released is non-existent Recycled Content: Unknown Nanomaterials: unknown

Dibutyltin dilaurate	catalyst	0.01-3%	Acute Tox. 4. Skin Irrit. 2. Eye Irrit. 2. Acute Tox. 3. STOT RE 2. Repr. 1B. Muta. 2				In use, this catalyst is embedded in the product through the curing of the powdercoating thus, the chance of it being released is non existent Recycled Content: None Nanomaterials: unknown
Proprietary	Proprietary	0.5-5%	*				None Recycled Content: Unknown Nanomaterials: unknown

* 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: TVOC of 0.159 mg/m2/hr for product applied on site is < 0.5mg/m2/hr measured using Test method ASTM D5116 "Standard Guide for Small Scale Environmental Chamber Determination of Organic Emissions from Indoor Materials/Products. Sample tested in October 2017 at Foray Laboratories - NATA Accreditation 1231. Test approved by CETEC on 30th October 2017