

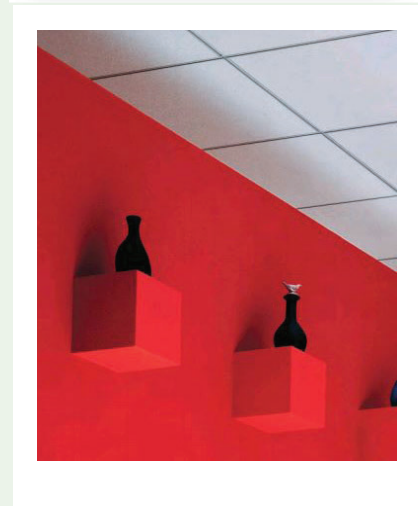


Knauf Gypsum Pty Ltd

Mineral Fibre Ceiling Tiles

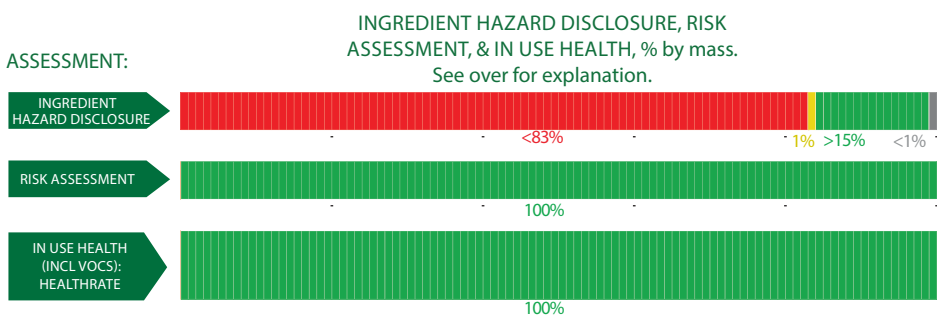
Olympia Micro™ ClimaPlus™, Olympus Max™ ClimaPlus™, Radar™ ClimaPlus™, Impression™ ClimaPlus™, Impression™ High NRC ClimaPlus™, Impression™ High NRC/CAC ClimaPlus™, Mars™ ClimaPlus™ are wet felted mineral fibre ceiling tiles with non-directional pattern, high durability and low VOC emission, which offer fast, efficient installation.

Products/Ranges:	Mineral Fibre Ceiling Tiles
Product Stages Assessed:	Whole of life and in-use
CSI Masterformat:	09 50 00
Licenced Site/s:	Dachang China
Licence Number:	USG:PP01:2021:PH
Licence Date:	6th December 2021
Valid To:	6th December 2023
Standard:	GGT International v4.0
Screening Date:	6th December 2021
PHD URL:	https://www.globalgreentag.com/getfile/12880/phd.pdf



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
- 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 5); Feature 11 (Part 1); Feature 25 (Part 2, 4) , 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 1); X05 (Part 2); X06 (Part 2); 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 Personal Products Standard v1.0/1.1, and 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 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 concerns- ingredient safe at any level based on current known science, % of the ingredient, and relevance to use context'
Yellow	Medium to Low Hazardous Ingredient with minor level of "Issue of Concern" depending on % of the ingredient, hazard level, and relevance to use context'
Orange	Moderate Hazardous ingredient with "Issue of Concern" or "Issue of Concern Minimised" depending on % of the ingredient, hazard level, and relevance to use context'
Red	Problematic (Red): Target for Phase Hazardous ingredient with 'Red Light' or "Red Light Minimised" concern depending on % of the ingredient, hazard level, and relevance to use context'
Dark Red	Very Problematic (Dark Red): Target for Phase Very Hazardous ingredient with 'Red Light Exclusion" concern depending on % of the ingredient, hazard level, and relevance to use context'
Grey	Uncategorised Not able to be categorised due to lack of toxicity impact information.
Black	Banned Ingredients Petroleum, Parabens plus a wide range of compounds stipulated by cleaning/personal products standards.

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
Material: Slag Wool Fiber							
Slag Solution	Slag Solution	10%-90%	H317 (Carc. 2)				During manufacturing, this ingredient may sensitize the skin, eyes and respiratory systems. It is bound and encapsulated in the final product and not expected to cause harm to the end-user. Recycled Content: None Nanomaterials: No
White Mineral Oil	8042-47-5	2%-18%	H304 (Asp. Tox. 1), H413 (Aquatic Chronic 4), H319 (Eye Irrit. 2), H332 (Acute Tox. 4)				White mineral oil is bound in the product and not harmful to the end-user. Recycled Content: None Nanomaterials: No
Material: Expanded Perlite							

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
Perlite, Expanded	93763-70-3	0-75%	H319 (Eye Irrit. 2), H335 (STOT SE 3), H315 (Skin Irrit. 2)				Perlite is generally a natural volcanic glass which may only be harmful if ingested or inhaled if not bound in the product. However, this ingredient is bound in the product and not harmful to the user of the ceiling product. Recycled Content: None Nanomaterials: No
Material: Cellulose, 2-hydroxyethyl ether							
Hydroxyethyl Cellulose	Thickner	1%-25%	H335 (Skin Irrit. 2), H319 (Eye Irrit. 2)				Hydroxyethyl Cellulose is bound in the product and is not harmful to the end-users. Recycled Content: None Nanomaterials: No
Material: Starch							
Starch	9005-25-8	5%-15%	H320 (Eye Irrit. 2), H332 (Acute Tox. 4)				The starch is bound in the ceiling product and is not harmful as it is not released when the product is in use. Recycled Content: None Nanomaterials: No
Material: Kaolin							
Kaolin, calcined	Paint filler	0-15%	H320 (Eye Irrit. 2), H332 (Acute Tox. 4)				During manufacturing, this ingredient can irritate the eyes and respiratory systems. However, once reacted in the final product, this substance is not expected to cause harm to the end-user. Recycled Content: None Nanomaterials: No
Material: Limestone or Dolomite 0-10							
Calcium carbonate	1317-65-3	0-10%	H315 (Skin Irrit. 2), H318 (Eye Dam. 1), H319 (Eye Irrit. 2)				The limestone even though had irritating characteristics, it is bound in the product. This ingredient is not harmful to the end-user. Recycled Content: None Nanomaterials: No
Material: Vinyl Acetate Polymer or Ethylene Vinyl Acetate							
Proprietary	Vinyl Acetate Polymer or Ethylene Vinyl Acetate	1.1%	*				Unknown substance is used. However, as there is no hazard declared, it is not expected to cause any harm to the end-user.
Water	7732-18-5	0.094%	None				Recycled Content: None Nanomaterials: No
2-methyloxirane	9003-11-6	0.04%	H 412 (Aquatic Chronic 3), H315 (Skin Irrit. 2), H319 (Eye Irrit. 2)				The substance can release to the air and cause eye and respiratory tract irritation. However it is bound and encapsulated in the final product and not expected to cause harm to the end-user. Recycled Content: None Nanomaterials: No
Material: Glass Fiber (MARS™ ClimaPlus™ only)							
Glass, oxide, chemicals	65997-17-3	0-2%	H351 (Carc. 2)				During manufacturing, this ingredient may sensitize the skin, eyes and respiratory systems. It is bound and encapsulated in the final product and not expected to cause harm to the end-user. Recycled Content: None Nanomaterials: No

* No GHS H-Statement classification

Comments:

VOC emissions: Meets USGBC LEED® v4.0 and v4.1 Rating System MR Credit: "Building Product Disclosure and Optimisation - Material Ingredients" - Option 1: Material Ingredient Reporting and Option 2 - International ACP - REACH Optimisation.

VOC content: VOC g/L for USG Boral's China made mineral fibre ceiling tiles is < 0.5mg/m2/hr as shown in the test reports. The test method used: ASTM D5116 "Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Material/Products". Test conducted in April and September 2021 (Tested by Setsco Services Pte Ltd).