GLOBAL GREEN TAG INTERNATIONAL PTY LTD

PHD™
Product Health Declaration

Global GreenTag CertTM Certified
PLATINUM HEALTH
HealthRate™

Armstrong Ceiling Solutions (Australia) Pty Ltd

METALWORKS® Ceilings & Walls & Peakform Steel Suspended Grid Systems

Armstrong Metalworks® ceilings and walls & Peakform Steel Suspended Grid Systems are designed to offer both acoustic performance with contemporary design. 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.

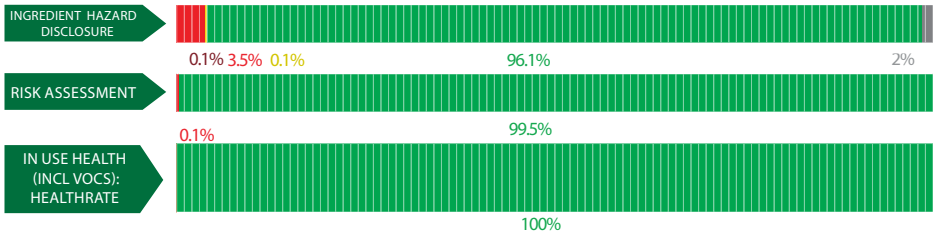
Products/Ranges:	METALWORKS® Ceilings & Walls & Peakform Steel Suspended Grid Systems
Product Stages Assessed:	Manufacturing + In-Use
Product Type:	Ceiling and Walls
CSI Masterformat:	09 51 00 Acoustical Ceilings
Licenced Site/s:	Suzhou, China
Licence Number:	AWI:AC06:2025:PH
Licence Date:	02 June 2025
Valid To:	02 June 2026
Standard:	GGT International v4.1
Screening Date:	28 October 2024
PHD URL:	www.globalgreentag.com/certificate/2665

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 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, 2, 3, 4, 5); Feature 11 (Part 1, 5); Feature 25 (Part 1, 2, 3, 4, 5) , 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, 2, 3); X05 (Part 1, 2); X06 (Part 1, 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.
- Independent third party assessment for worker, user, and environmental exposure to any Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors.

INGREDIENT HAZARD DISCLOSURE, RISK ASSESSMENT, & IN USE HEALTH, % by mass.
See over for explanation.

ASSESSMENT:



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 risks 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 final product 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) of a PHD rating relates ONLY to a Human Health Toxicity Assessment and is declared separately and not equivalent to the overall Bronze, Silver Gold or Platinum Green Tag Certification Mark Tier Levels of LCARate.

1.2 Preparing a PHD

GGT PHDs are prepared in the format of a transparency document which utilizes Hazard Classifications from the UN Globally Harmonised System of Classification and Labelling of Chemicals (GHS). Hazard Classifications are then risk assessed with a focus on the In Use stage for an outcome of 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 International Standard v4.0/4.1, Personal Products Standard v1.0/1.1, or 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 Australasian 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 & v4.1, WELL ® v1.0 & v2.0, Green Star ®, the following information is declared from the audit:

Colour	Ingredient Hazard Disclosure
Green	Level 4 The hazard level of this ingredient indicates that the ingredient has no toxic hazard statements with no identified health effects.
Yellow	Level 3 The hazard level of this ingredient indicates that the ingredient is mildly toxic and/or has short/medium term reversible health effects.
Orange	Level 2 The hazard level of this ingredient indicates that the ingredient is moderately toxic and/or with a moderate health effects.
Red	Level 1 The hazard level of this ingredient indicates that the ingredient is highly toxic with a potential for severe health effects.
Black	Level 0 The hazard level of this ingredient indicates that the ingredient is highly toxic with a potential for severe health effects and is banned from being detectable above trace amounts in the final product.
Grey	Grey Chemical Not able to be categorised due to lack of toxicity impact information.

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 Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Galvanised Steel								
Iron	7439-89-6	85-100%	None	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Zinc powder - zinc dust (stabilised)	7440-66-6	5-15%	H400 (Aquatic Acute 1), H410 (Aquatic Chronic 1)	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Proprietary Substance	Alloy	10%	None Declared	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Capping Steel								
Zinc	7440-66-6	1-5%	H400 (Aquatic Acute 1), H410 (Aquatic Chronic 1)	OK				Risks during the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is chemically changed and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Iron	7439-89-6	70-85%	None	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Powder Coating								
Proprietary Substance		1-5%	None	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Hydroxyl alkylamide	6334-25-4	0.01-1%	H319 (Eye Irrit. 2A), H315 (Skin Irrit. 2.), H335 (STOT SE 3 (Resp.),	OK				Risks during the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and ran ISO14001 Certified EMS system to reduce environmental release. This material is chemically changed and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Titanium dioxide	13463-67-7	0.01-1%	IARC 2B, H351 (Inhalation) (Carc. 2)	OK				Risks are mainly for inhalation of this material which is naturally abundant in the environment. The risks the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is embedded and inert in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Barium sulfate	7727-43-7	0.01-1%	None	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
2-Propenoic acid, butyl ester, homopolymer	9003-49-0	0.01-1%	H315 (Skin Irrit. 2.)	OK				Risks during the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and ran ISO14001 Certified EMS system to reduce environmental release. This material is chemically changed and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Carbon black	1333-86-4	0.01-1%	IARC 2B	OK				Risks are mainly for inhalation of this material which is found naturally in the environment. The risks the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is embedded and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown

Powder Coating								
1,3,5-tris(oxiranyl-methyl)-1,3,5-tri-	2451-62-9	0.01-1%	H340 (Muta. 1B), H331 (Acute Tox. 3 *), H301 (Acute Tox. 3), H373 ** (STOT RE 2), H318 (Eye Dam. 1), H317 (Skin Sens. 1), H412 (Aquatic Chronic 3)	OK				Risks during the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and ran ISO14001 Certified EMS system to reduce environmental release. This material is chemically changed and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Zinc di(benzothiazol-2-yl) disulphide	155-04-4	0.01-1%	H400 (Aquatic Acute 1), H410 (Aquatic Chronic 1), H317 (Skin Sens. 1)	OK				Risks during the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is chemically changed and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Proprietary Substance	Additive	0.01-1%	None	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
1,3,5-Triazine-2,4,6-triamine, N2,N2'-1,2-ethanediyl-bis[N2-[3-[[4,6-bis[butyl(1,2,2,6,6-pentamethyl-4-piperidinyl) amino]-1,3,5-triazin-2-yl]amino] propyl]-N4,N6-dibu-	106990-43-6	0.01-1%	H317 (Skin Sens. 1), H411 (Aquatic Chronic 2)	OK				The main risks are environmental and skin sensitizers. Risks during the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and ran ISO14001 Certified EMS system to reduce environmental release. This material is chemically changed and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Proprietary Substance	Additive	1-5%	None Declared	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Powder Coating								
1,3,5-tris(oxiranyl-methyl)-1,3,5-tri-	2451-62-9	0.01-1%	H340 (Muta. 1B), H331 (Acute Tox. 3 *), H301 (Acute Tox. 3), H373 ** (STOT RE 2), H318 (Eye Dam. 1), H317 (Skin Sens. 1), H412 (Aquatic Chronic 3)	OK				Risks during the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and ran ISO14001 Certified EMS system to reduce environmental release. This material is deemed necessary for the function of the product, is chemically changed and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid and 2,2-dimethyl-1,3-propanediol	25214-38-4	1-5%	None	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Hydroxyl alkylamide	6334-25-4	0.01-1%	H319 (Eye Irrit. 2A), H315 (Skin Irrit. 2.), H335 (STOT SE 3 (Resp.),	OK				Risks during the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and ran ISO14001 Certified EMS system to reduce environmental release. This material is chemically changed and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
1,3,5-tris(oxiranyl-methyl)-1,3,5-tri-	2451-62-9	0.01-1%	H340 (Muta. 1B), H331 (Acute Tox. 3 *), H301 (Acute Tox. 3), H373 ** (STOT RE 2), H318 (Eye Dam. 1), H317 (Skin Sens. 1), H412 (Aquatic Chronic 3)	OK				Risks during the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and ran ISO14001 Certified EMS system to reduce environmental release. This material is deemed necessary for the function of the product, is chemically changed and hardened in the final product and does not have any identifiable risks to users. ` Recycled Content: None Nanomaterials: Unknown

Titanium dioxide	13463-67-7	1-5%	IARC 2B, H351 (Inhalation) (Carc. 2)	OK				Risks are mainly for inhalation of this material which is naturally abundant in the environment. The risks the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is embedded and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Iron hydroxide oxide	20344-49-4	0.01-1%	None	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Carbon black	1333-86-4	0.01-1%	IARC 2B	OK				Risks are mainly for inhalation of this material which is found naturally in the environment. The risks the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is embedded and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Diiron trioxide	1309-37-1	0.01-1%	IARC 3, H411 (Aquatic Chronic 2)	OK				Risks are mainly for inhalation of this material which is found naturally in the environment. The risks the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is embedded and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Aluminium	7429-90-5	0.01-1%	H228 (Flam. Sol. 1), H261 (Water-react. 2)	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Mica	12001-26-2	0.01-1%	H335 (STOT SE 3 (Resp.), H319 (Eye Irrit. 2A), H372 (STOT RE 1), H373 (STOT RE 2), H315 (Skin Irrit. 2.) , H411 (Aquatic Chronic 2), H350 (Carc. 1B)	OK				Risks are mainly for inhalation of this material which is found naturally in the environment. The risks the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is embedded and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Castor oil, hydrogenated	8001-78-3	0.01-1%	None	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
N,N'-ethylenedi(stearamide)	110-30-5	0.01-1%	H312 (Acute Tox. 4 (Dermal)), H319 (Eye Irrit. 2A), H335 (STOT SE 3 (Resp.), H315 (Skin Irrit. 2.), H317 (Skin Sens. 1), H413 (Aquatic Chronic 3), H412 (Aquatic Chronic 3), H411 (Aquatic Chronic 2)	OK				The risks the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is embedded and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	Non Declared	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Powder Coating								
1,3,5-tris(oxiranylmethyl)-1,3,5-tri-	2451-62-9	0.01-1%	H340 (Muta. 1B), H331 (Acute Tox. 3 *), H301(Acute Tox. 3), H373 ** (STOT RE 2), H318 (Eye Dam. 1), H317 (Skin Sens. 1), H412 (Aquatic Chronic 3)	OK				Risks during the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and ran ISO14001 Certified EMS system to reduce environmental release. This material is deemed necessary for the function of the product, is chemically changed and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown

1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid and 2,2-dimethyl-1,3-propanediol	25214-38-4	1-5%	None	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Hydroxyl alkylamide	6334-25-4	0.01-1%	H319 (Eye Irrit. 2A), H315 (Skin Irrit. 2.) (Skin Irrit. 2.), H3350 (STOT SE 3 (Resp.)	OK				Risks during the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and ran ISO14001 Certified EMS system to reduce environmental release. This material is chemically changed and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
1,3,5-tris(oxiranylmethyl)-1,3,5-tri-	2451-62-9	0.01-1%	H340 (Muta. 1B), H331 (Acute Tox. 3 *), H301 (Acute Tox. 3 *), H318 (Eye Dam. 1), H317 (Skin Sens. 1), H412 (Aquatic Chronic 3)	OK				Risks during the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and ran ISO14001 Certified EMS system to reduce environmental release. This material is deemed necessary for the function of the product, is chemically changed and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Titanium dioxide	13463-67-7	1-5%	IARC 2B, H351 (Inhalation) (Carc. 2)	OK				Risks are mainly for inhalation of this material which is naturally abundant in the environment. The risks the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is embedded and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Iron hydroxide oxide	20344-49-4	0.01-1%	None	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Carbon black	1333-86-4	0.01-1%	IARC 2B	OK				Risks are mainly for inhalation of this material which is found naturally in the environment. The risks the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is embedded and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Diiron trioxide	1309-37-1	0.01-1%	IARC 3, H411 (Aquatic Chronic 2)	OK				Risks are mainly for inhalation of this material which is found naturally in the environment. The risks the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is embedded and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Aluminium	7429-90-5	0.01-1%	H228 (Flam. Sol. 1, H261(Water-react. 2)	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Mica	12001-26-2	0.01-1%	H335 (STOT SE 3 (Resp.), H319 (Eye Irrit. 2A), H372 (STOT RE 1), H373 (STOT RE 2), H411 (Aquatic Chronic 2), H350 (Carc. 1B)	OK				Risks are mainly for inhalation of this material which is found naturally in the environment. The risks the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is embedded and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Castor oil, hydrogenated	8001-78-3	0.01-1%	None	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown

N,N'-ethylenedi(stearamide)	110-30-5	0.01-1%	H312 (Acute Tox. 4 (Dermal)), H319 (Eye Irrit. 2A), H335 (STOT SE 3 (Resp.), H315 (Skin Irrit. 2.), H317 (Skin Sens. 1), H413 (Aquatic Chronic 3), H412 (Aquatic Chronic 3), H411 (Aquatic Chronic 2)	OK				The risks the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is embedded and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Silicon dioxide	112926-00-8	1-5%	Non Declared	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Galvinised steel								
Zinc powder - zinc dust (stabilised)	7440-66-6	0.01-1%	H400 (Aquatic Acute 1), H410 (Aquatic Chronic 1)	OK				Risks during the manufacturing process are mitigated through a certified ISO45001 OHS system to protect workers and an ISO14001 Certified EMS system to reduce environmental release. This material is chemically changed and hardened in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Iron	7439-89-6	0.01-1%	None	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Acoustic Fleece								
Proprietary Substance	Covered by substance declaration	0.01-1%	Non Declared	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Acoustical Fleece Adhesive								
Polyolefin polymer	308070-26-0	0.01-1%	None	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Calcium	7440-70-2	0.01-1%	H261 (Water-react. 2)	OK				No identifiable hazards. Recycled Content: Unknown Nano Materials: Unknown
Proprietary Substance	Additives	5-15%	Non Declared	OK				No identifiable hazards. Recycled Content: Post-C/Unknown Nano Materials: Yes/No/Unknown

Comments:
This product's VOC content has been tested on October 2017 using test method described in ASTM D5116 and found the Total Volatile Organic Compound Emission Rate: to be < 0.5mg/m$^{2/}$hr and Formaldehyde Emission Rate limit to be <0.1.