GLOBAL GREEN TAG INTERNATIONAL PTY LTD

PHD™
Product Health Declaration

GLOBAL GREENTAG HEALTH RATE
Platinum HEALTH
CERT TM
trust brands™

Boral Construction Materials Group Ltd

Concrete

Boral pre-mixed concrete products can be used in a variety of building and civil engineering applications. Each Boral concrete product is designed to have the strength and durability to comply with targeted requirements. Boral operates NATA accredited laboratories where they regularly test concrete quality and fitness for purpose compliance.

Products/Ranges:	Various - See Comments
Product Stages Assessed:	Whole of life + In-Use
Product Type:	Concrete
CSI Masterformat:	03 00 00 - Concrete
Licenced Site/s:	Australia
Licence Number:	BOA:CP01:2023:PH
Licence Date:	06th June 2023
Valid To:	06th June 2025
Standard:	GGT International v4.0
Screening Date:	07th May 2025
PHD URL:	www.globalgreentag.com/certificate/2270

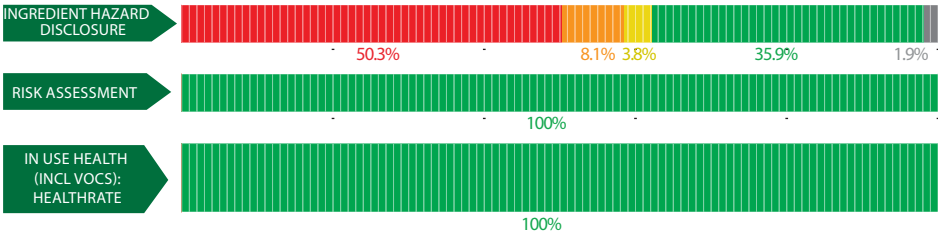
BORAL®

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

- GreenTag Banned List Compliant.
- GreenTag PHD recognised by WELL™ & LEED ® Material Transparency & Optimisation credits included below:
- Meets Green Star ® 'Buildings v1.0' as Recognised for~ Credit 6: Responsible Structure; OR Credit 9: Responsible Finishes
- Meets IWBI ® WELL™ v1.0 as Recognised for ~ Feature 26 (Part 1); Feature 97 (Part 1); as a Compliant Technical Document (Audited) for ~ Feature 11 (Part 1); and, meets IWBI ® WELL™ v2.0 as Recognised for ~ X07 (Parts 1, 3); X08 (Part 2); as a Compliant Technical Document (Audited) for ~ X01 (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.
- 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 & 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 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 Assessment	Whole Of Life Assessment	In Use Health Assess-ment	Comment
Coarse Aggregate								
Quartz (>1% repairable crystalline silica)	14808-60-7	20-85%	H351i (Carc 1A) H373 (STOT(SE)2)	OK				This substance is hazardous to inhale. Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. This product is supplied as a wet mixture which reduces the risk of exposure however some exposure may occur when cleaning tools and clothing. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any significant risks to users if left whole. If the hardened product is drilled, sawed or chased, Boral recommends the use of respirators and other PPE to avoid dust to minimise risk during use phase. Recycled Content: None Nanomaterials: Unknown
Manufactured Sand								
Quartz (>1% crystalline silica)	14808-60-7	20-85%	H351i (Carc 1A) H373 (STOT(SE)2)	OK				This substance is hazardous to inhale. Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. This product is supplied as a wet mixture which reduces the risk of exposure however some exposure may occur when cleaning tools and clothing. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any significant risks to users if left whole. If the hardened product is drilled, sawed or chased, Boral recommends the use of respirators and other PPE to avoid dust to minimise risk during use phase. Recycled Content: None Nanomaterials: Unknown
Other Substances	NA	0.01-1%	None Declared	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Natural Fine Aggregate								
Quartz (>1% repairable crystalline silica)	14808-60-7	20-85%	H351i (Carc 1A) H373 (STOT(SE)2)	OK				This substance is hazardous to inhale. Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. This product is supplied as a wet mixture which reduces the risk of exposure however some exposure may occur when cleaning tools and clothing. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any significant risks to users if left whole. If the hardened product is drilled, sawed or chased, Boral recommends the use of respirators and other PPE to avoid dust to minimise risk during use phase. Recycled Content: None Nanomaterials: Unknown
Other Substances	NA	0.01-1%	None Declared	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
General Purpose Cement								
Portland cement	65997-15-1	15-30%	H315 (Skin Irrit.) H317 (Skin Sens. 1B) H318 (Eye Dam. 1) H335 Inhalation (STOT SE 3)	OK				This substance is an irritant for eye, skin and inhalation. Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. This product is supplied as a wet mixture which reduces the risk of exposure however some exposure may occur when cleaning tools and clothing. Drying cement also produces heat. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any significant risks to users if left whole. If the hardened product is drilled, sawed or chased, Boral recommends the use of respirators and other PPE to avoid dust to minimise risk during use phase. Recycled Content: None Nanomaterials: Unknown

Limestone (calcium carbonate)	1317-65-3	1-5%	Not Classified	OK				There are no identifiable risks associated with this substance as a whole . When mixed with water it becomes caustic but this is managed through Health, Safety, Environment and Quality (HSEQ) Management System Recycled Content: None Nanomaterials: Unknown
Gypsum	13397-24-5	1-5%	Not classified	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Calcium oxide	1305-78-8	0.01-1%	H315 (Skin Irrit. 2) EH318 (Eye Dam. 1) H335 Inhalation (STOT SE 3)	OK				This substance is an irritant for eye, skin and inhalation. Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. This product is supplied as a wet mixture which reduces the risk of exposure however some exposure may occur when cleaning tools and clothing. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any significant risks to users if left whole. If the hardened product is drilled, sawed or chased, Boral recommends the use of respirators and other PPE to avoid dust to minimise risk during use phase. Recycled Content: None Nanomaterials: Unknown
Magnesium oxide	1309-48-4	0.01-1%	Not classified	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Quartz (>1% respirable crystalline silica)	14808-60-7	0.01-1%	H351i (Carc 1A) H373 (STOT(SE)2)	OK				This substance is an irritant for eye, skin and inhalation. Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. This product is supplied as a wet mixture which reduces the risk of exposure however some exposure may occur when cleaning tools and clothing. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any significant risks to users if left whole. If the hardened product is drilled, sawed or chased, Boral recommends the use of respirators and other PPE to avoid dust to minimise risk during use phase. Recycled Content: None Nanomaterials: Unknown
Ashes (residues)	68131-74-8	1-5%	H319 (Eye Irrit. 2)	OK				This substance is an irritant for eye, skin and inhalation. Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any significant risks to users if left whole. If the hardened product is drilled, sawed or chased, Boral recommends the use of respirators and other PPE to avoid dust. This minimises risk during use phase. Recycled Content: None Nanomaterials: Unknown
Slags, ferrous metal, blast furnace	65996-69-2	1-5%	Not classified	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Ground Granulated Blast Furnace Slag								
Slags, ferrous metal, blast furnace	65996-96-2	85-100%	Not classified	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Gypsum	13397-24-5	5-15%	Not classified	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Other Substances	Filler	5-15%	Not classified	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Fly Ash								
Silicon Dioxide (Silica, Amorphous)	7631-86-9	70-85%	Not classified	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown

Quartz (>1% respirable crystalline silica)	14808-60-7	5-15%	IARC Group 3	OK				This substance is hazardous to inhale. Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. This product is supplied as a wet mixture which reduces the risk of exposure however some exposure may occur when cleaning tools and clothing. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any significant risks to users if left whole. If the hardened product is drilled, sawed or chased, Boral recommends the use of respirators and other PPE to avoid dust to minimise risk during use phase. Recycled Content: None Nanomaterials: Unknown
Other Substances	Filler	1-5%	None Declared	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Silica Fume								
Fumes, Silica (crystalline) (<1% respirable crystalline silica)	69012-64-2	1-5%	Not Classified	OK				There are no identifiable risks associated with this substance. Recycled Content: Post-C Nanomaterials: Unknown
Remaining substances	NA	1-5%	Not Classified	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Magnesium Oxide	1309-48-4	0.01-1%	Not classified	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Aluminium Oxide	1344-28-1	0.01-1%	Not Classified	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Iron Oxide	1309-38-2	0.01-1%	Not classified	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Quartz (>1% respirable crystalline silica)	14808-60-7	0.01-1%	H351i (Carc 1A) H373 (STOT(SE)2)	OK				This substance is hazardous to inhale. Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. This product is supplied as a wet mixture which reduces the risk of exposure however some exposure may occur when cleaning tools and clothing. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any significant risks to users if left whole. If the hardened product is drilled, sawed or chased, Boral recommends the use of respirators and other PPE to avoid dust to minimise risk during use phase. Recycled Content: None Nanomaterials: Unknown
Water								
Water	Hydration	5-15%	Not Classified	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Salt								
Sodium sulphate	7757-82-6	5-15%	Not Classified	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Admixture 1: Air Entrainer (Optional)								
2-(2-butoxyethoxy) ethanol	112-34-5	0.01-1%	H319(Eye Irrit.2)	OK				This substance is a strong irritant for eye, skin and inhalation and aerosols should be avoided at all costs. Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. This product is supplied as a wet mixture which reduces the risk of exposure however some exposure may occur when cleaning tools and clothing. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any significant risks to users if left whole. If the hardened product is drilled, sawed or chased, Boral recommends the use of respirators and other PPE to avoid dust to minimise risk during use phase. Recycled Content: None Nanomaterials: Unknown

2,2-dimethylpropane-1,3-diol	126-30-7	0.01-1%	H318 (Eye Dam. 1)	OK				The Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. This product is supplied as a wet mixture which reduces the risk of exposure however some exposure may occur when cleaning tools and clothing. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any significant risks to users if left whole. If the hardened product is drilled, sawed or chased, Boral recommends the use of respirators and other PPE to avoid dust to minimise risk during use phase. Recycled Content: None Nanomaterials: Unknown
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no identifiable risks associated with this substance. Recycled Content: None Nanomaterials: Unknown
Admixture 2: Water Reducer (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared Hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Sodium thiocyanate	540-72-7	0.01-1%	H302 (Acute Tox. 4) H312 (Acute Tox. 4) H318 (Eye Dam. 1) H332 (Acute Tox. 4) H412 (Aquatic Chronic 3)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Admixture 3: Water Reducer (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
2,2'-(methylimino) diethanol	105-59-9	0.01-1%	H319 (Eye Irrit.2)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Sodium thiocyanate	540-72-7	<0.01%	H302 (Acute Tox. 4) H312 (Acute Tox. 4) H318 (Eye Dam. 1) H332 (Acute Tox. 4) H412 (Aquatic Chronic 3)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Admixture 4: Water Reducer (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Admixture 5: Water Reducer (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Admixture 6: Water Reducer (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Admixture 7: Set Accelerator (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown

Calcium nitrate tetrahydrate	13477-34-4	0.01-1%	H302 (Acute Tox. 4 (Oral)) H318 (Eye Dam. 1) H272 (Ox. Liq. 3,) H373 (STOT RE 2) H371 (STOT SE 2) H319 (Eye Dam. 2A) H315 (Skin Irrit. 2) H335 (STOT SE 3 (Resp.)) H271 (Ox. Liq. 1)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Sodium thiocyanate	540-72-7	0.01-1%	H302 (Acute Tox. 4) H312 (Acute Tox. 4) H318 (Eye Dam. 1) H332 (Acute Tox. 4) H412 (Aquatic Chronic 3)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
2,2',2"-nitrilotriethanol	102-71-6	0.01-1%	IARC 3 H319 (Eye Irrit.) H318 (Eye Dam 1) H361 (Repr. 2)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Admixture 8: Set Accelerator (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
2,2',2"-nitrilotriethanol	102-71-6	0.01-1%	IARC 3 H318 (Eye Dam1.) H361 (Repr. 2)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Admixture 9: Set Accelerator (Optional)								
Calcium nitrate tetrahydrate	13477-34-4	0.01-1%	H302 (Acute Tox. 4 (Oral)) H318 (Eye Dam. 1) H272 (Ox. Liq. 3,) H373 (STOT RE 2) H371 (STOT SE 2) H319 (Eye Dam. 2A) H315 (Skin Irrit. 2) H335 (STOT SE 3 (Resp.)) H271 (Ox. Liq. 1)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Proprietary	See substance declaration 6	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
2,2',2"-nitrilotriethanol	102-71-6	0.01-1%	IARC 3 H318 (Eye Dam1.) H361 (Repr. 2)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Sodium thiocyanate	540-72-7	0.01-1%	H302 (Acute Tox. 4) H312 (Acute Tox. 4) H318 (Eye Dam. 1) H332 (Acute Tox. 4) H412 (Aquatic Chronic 3)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Admixture 10: Water Reducer Accelerator (Optional)								
Proprietary	13477-34-4	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown

Sodium thiocyanate	540-72-7	0.01-1%	Acute Tox. 4 (Oral), Acute Tox. 4 (Dermal), Acute Tox. 4 (Inhalation), Aquatic Chronic 3 Eye Dam. 1	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
2,2',2''-nitrilotriethanol	102-71-6	0.01-1%	IARC 3 H318 (Eye Dam1.) H361 (Repr. 2)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Proprietary	540-72-7	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Admixture 11: Set Accelerator (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Calcium nitrate tetrahydrate	13477-34-4	0.01-1%	H302 (Acute Tox. 4 (Oral)) H318 (Eye Dam. 1) H272 (Ox. Liq. 3) H373 (STOT RE 2) H371 (STOT SE 2) H319 (Eye Dam. 2A) H315 (Skin Irrit. 2) H335 (STOT SE 3 (Resp.)) H271(Ox. Liq. 1)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Calcium chloride	10043-52-4	0.01-1%	H319 (Eye Irrit. 2)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
2,2',2''-nitrilotriethanol	102-71-6	0.01-1%	IARC 3 H319 (Eye Irrit.) H318 (Eye Dam 1) H361 (Repr. 2)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Admixture 12: Water Reducer (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Admixture 13: Water Reducer (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
1,1',1'-nitrilotripropan-2-ol	122-20-3	0.01-1%	H319 (Eye Irrit. 2)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Admixture 14: Water Reducer (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown

Admixture 15: Workability Retainer (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Admixture 16: Water Reducer (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Admixture 17: Water Reducer (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Admixture 18: Water Reducer (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Admixture 19: Set Controller (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Admixture 20: Set Retarder (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Admixture 21: Air Entrainer (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Admixture 22: Air Entrainer (Optional)								
Proprietary	Diluent	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Additive	0.01-1%	None Declared	OK				There are no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Benxenedulfonic acid, mono-C10-16-alkyl derivs, sodium salts	68081-81-2	0.01-1%	H302 (Acute Tox. 4 (Oral)) H318 (Eye Dam. 1) H335 (STOT SE 3 (Resp.)) H315 (Skin Irrit. 2)	OK				Risks during the manufacturing stage are mitigated through Boral's integrated Health Safety Environment and Quality (HSEQ) Management System. Boral requires installation personal to have adequate safety training and take safety precautions including PPE to limit exposure. This substance is cured in the final product and does not have any identifiable risks to users. Recycled Content: None Nanomaterials: Unknown
Steel Fiber Bundles (Optional)								
Steel Fibers	12597-69-2	<5%	None	OK				There are no identifiable hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Proprietary	Adhesive	<5%	None Declared	OK				There are no identifiable hazards for this substance. Recycled Content: No Nanomaterials: Unknown

Comments:
The scope of the PHD includes the following Boral Construction Materials Group Pty Ltd products :

50mm Line Concrete (2 Inch) (≤ 50 MPa)	Exposed Aggregate Concrete (≤ 50 MPa)	Low Permeability Concrete (≤ 80 MPa)	Slipform Concrete (≤ 50 MPa)
75mm Line Concrete (3 Inch) (≤ 50 MPa)	Fibre Steel Concrete (≤ 50 MPa)	Low Shrinkage Concrete (≤ 80 MPa)	Special Class Concrete (≤ 120 MPa)
Aspire Concrete (≤ 120 MPa)	Flex Concrete (≤ 50 MPa)	Min Cement Concrete (≤ 80 MPa)	Stabilised Sand
Blockfill Concrete (≤ 65 MPa)	Flowable Fill	No Fines Concrete (≤ 20 MPa)	Standard Concrete (≤ 80 MPa)
Boralslab Concrete (≤ 50 MPa)	Foundation Concrete (≤ 50 MPa)	Normal (≤ 65 MPa)	Superset Concrete (≤ 50 MPa)
Boralstone Concrete (≤ 50 MPa)	Grout	Pattern Pave Concrete (≤ 40 MPa)	Superworkable Concrete (≤ 100 MPa)
Burnish Finish Concrete (≤ 50 MPa)	High Performance Concrete (≤ 120 MPa)	Paverbed Concrete (≤ 20 MPa)	Sydney Water Concrete (≤ 80 MPa)
Controlled Low Strength Concrete (≤ 10 MPa)	High Rise Concrete (≤ 120 MPa)	Paving Concrete (≤ 80 MPa)	Tank Concrete (≤ 50 MPa)
Duramix Concrete (≤ 80 MPa)	High Slump Concrete (≤ 80 MPa)	Piling Concrete (≤ 100 MPa)	Tilt Up Concrete (≤ 65 MPa)
Early Age Strength Concrete (≤ 50 MPa)	High Strength Concrete (≤ 120 MPa)	Polished Concrete (≤ 50 MPa)	Topping Concrete (≤ 80 MPa)
Easy Place Concrete (≤ 50 MPa)	High Workability Concrete (High to 80 MPa)	Pool Concrete (≤ 50 MPa)	Tremie Concrete (≤ 80 MPa)
Enflo Self Compacting Concrete (≤ 80 MPa)	Hollow Core Concrete (≤ 50 MPa)	Post Tensioned Concrete (≤ 65 MPa)	Utilities Concrete (≤ 65 MPa)
Envirocrete (≤ 100 MPa)	Infill Concrete (≤ 50 MPa)	Precast Concrete (≤ 100 MPa)	Waffle Slab (≤ 50 MPa)
Envirocrete Plus (≤ 100 MPa)	Jump Form Concrete (≤ 80 MPa)	Pump Concrete (≤ 50 MPa)	Water Authority Concrete (≤ 80 MPa)
Envirocrete Plus Steel Fibre (≤50 MPa)	Kerb Hand Placed Concrete (≤ 40 MPa)	Road Authority Bridge Concrete (≤ 80 MPa)	Waterproof Concrete (≤ 80 MPa)
Envirocrete Steel Fibre (≤50 MPa)	Kerb Machine Placed Concrete (≤ 40 MPa)	Road Authority Paving Concrete (≤ 50 MPa)	Winterslab Concrete (≤ 65 MPa)
Envisia Concrete (≤ 100 MPa)	Late Age Concrete (≤ 120 MPa)	Self Compacting Concrete (≤ 100 MPa)	
Envisia Steel Fibre (≤50 MPa)	Lean Mix Concrete (≤ 15 MPa)	Shotcrete (≤ 80 MPa)	
Exposé Concrete (≤ 50 MPa)	Low Heat Concrete (≤ 80 MPa)	Shotcrete Steel Fiber (≤ 50 MPa)	