



## Boral Construction Materials Group Ltd Concrete

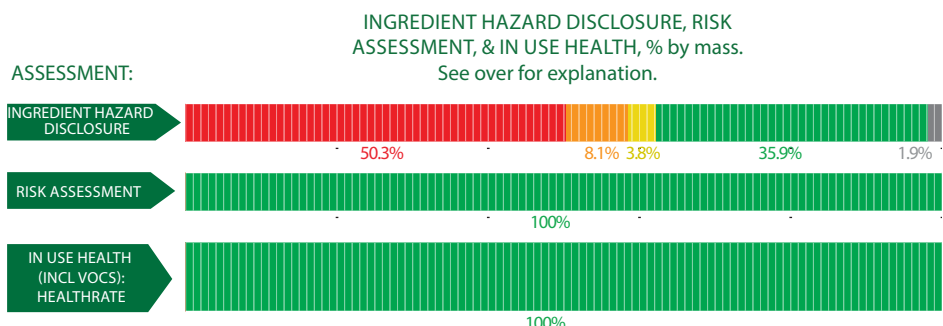
Boral pre-mixed concrete products can be used in a variety of building and civil engineering applications. Each Boral concrete product is designed to have the strength and durability to comply with targeted requirements. Boral operates NATA accredited laboratories where they regularly test concrete quality 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:	06 <sup>th</sup> June 2023
Valid To:	06 <sup>th</sup> June 2024
Standard:	GGT International v4.0
Screening Date:	06 <sup>th</sup> June 2023
PHD URL:	<a href="http://www.globalgreentag.com/getfile/13227/phd.pdf">www.globalgreentag.com/getfile/13227/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.
- Meets "Green Cleaning" requirements for Green Star<sup>®</sup>.
- GreenTag PHD recognised by WELL™ & LEED<sup>®</sup> Material Transparency & Optimisation credits included below:
- Meets Green Star<sup>®</sup> 'Buildings v1.0' as Recognised for ~ Credit 6: Responsible Structure; OR Credit 8: Responsible Finishes
- Meets IWBI<sup>®</sup> 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<sup>®</sup> WELL™ v2.0 as Recognised for ~ X07 (Parts 1, 3); X08 (Part 2); as a Compliant Technical Document (Audited) for ~ X01 (Part 1, 2, 3); X07 (Part 2); X08 (Part 1).
- Meets USGBC LEED<sup>®</sup> v4.0 and v4.1 Rating Tool Credit as Recognised for MR Credit: Building Product Disclosure and Optimisation - Material Ingredients - Option 1: Material Ingredient Reporting, Option 2: International ACP - REACH Optimisation.
- Worker, user, and environmental exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors managed through engineering, administrative and protective equipment controls.



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 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:

- 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 & v4.1, WELL v1 & v2, Living Building Challenge, Estidama etc., the following information is declared from the audit:

Colour	Hazard Level
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.

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	REACH	Ingredient Assessment	Whole Of Life Assessment	In Use Health Assessment	Comment
<b>Coarse Aggregate</b>								
Quartz (>1% respirable 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
<b>Manufactured Sand</b>								
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
<b>Natural Fine Aggregate</b>								
Quartz (>1% respirable 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
<b>General Purpose Cement</b>								
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. 1) H315 (Skin Irrit. 2A) 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"-nitrioltriethanol	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"-nitrioltriethanol	102-71-6	0.01-1%	IARC 3 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
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. 1) H315 (Skin Irrit. 2A) 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"-nitrioltriethanol	102-71-6	0.01-1%	IARC 3 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
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"-nitrioltriethanol	102-71-6	0.01-1%	IARC 3 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
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"-nitrioltriethanol	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'-nitrioltripropan-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
Benzenedulfonic 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

Comments:

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

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