GLOBAL GREEN TAG INTERNATIONAL PTY LTD

PHD™ Product Health Declaration

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Heidelberg Materials Australia Pty Ltd

Ready Mix Concrete

Heidelberg Materials provides pre-mixed concrete designed for strength, durability, and environmental performance. Suitable for residential, commercial, and civil projects, each mix meets Australian standards and specific project needs. Made under ISO 9001-certified systems and tested in NATA-accredited labs, our concrete ensures reliable performance. It contains no toxicity in use and is backed by EPDs to support sustainable building and responsible sourcing.

Heidelberg Materials

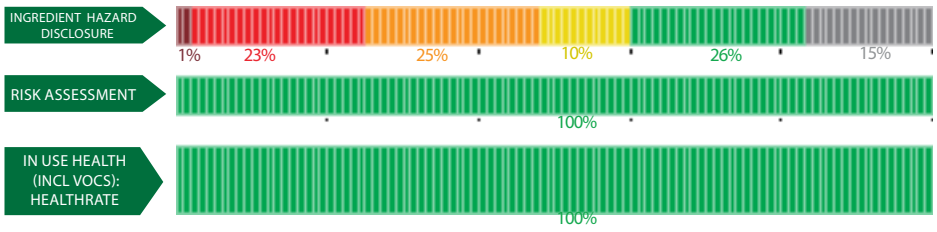
Products/Ranges:	Ready Mix Concrete
Product Stages Assessed:	Manufacturing + In-Use
Product Type:	Concrete
CSI Masterformat:	03 00 00
Licenced Site/s:	Australia
Licence Number:	HCM:AU01:2025:PH
Licence Date:	14th July 2025
Valid To:	14th July 2026
Standard:	GGT International v4.1
Screening Date:	25th May 2025
PHD URL:	www.globalgreentag.com/certificate/2954

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

- GreenTag Banned List Compliant.
- GreenTag PHD recognized by WELL ® & LEED ® Material Transparency & Optimization credits included below:
- Meets Green Star ® 'Buildings v1.0' as Recognized for~ Credit 6: Responsible Structure; Credit 9: Responsible Finishes.
- Meets IWBI ® WELL ® v1.0 as Recognized for ~ Feature 26 (Part 1); Feature 97 (Part 1); 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); 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 Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Admixture, Permeability Reducing								
Cement, portland, chemicals	65997-15-1	0.01-1%	H315, H318, H335, H317, H319, None, H351, H372	OK				This substance is hazardous to inhale. Risks during the manufacturing stage are mitigated through HMA 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. Installation personnel are required 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. Recycled Content: Unknown Nanomaterials: Unknown
Calcium magnesium tetrahydroxide	39445-23-3	0.01-1%	H318, H335, H315, None	OK				This substance is hazardous to inhale in uncured form due to formaldehyde release. Risks during manufacture are managed under HMA's HSEQ system through controlled curing and ventilation. The resin is fully cured in the final product and does not pose a significant health risk under normal use. Recycled Content: Unknown Nanomaterials: Unknown
Calcium magnesium dihydroxide oxide	58398-71-3	0.01-1%	H318, H335, H315	OK				This substance may cause skin and eye irritation and respiratory sensitisation in uncured form. HMA manages handling risks through its HSEQ Management System with containment and exposure controls. In the cured product, the epoxy is fully cross-linked and no longer presents a hazard under normal use. Recycled Content: Unknown Nanomaterials: Unknown
Proprietary Substance	Binder	0.01-1%	H315, H318, H335	OK				Substance Declaration does not pose specific risks under normal use. No H-statements apply.
General Purpose Cement								
Cement, portland, chemicals	65997-15-1	15-30%	H315, H318, H335, H317, H319, None, H351, H372	OK				This substance is hazardous to inhale. Risks during the manufacturing stage are mitigated through HMA'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. Installation personnel are required 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. Recycled Content: Unknown Nanomaterials: Unknown
Sulfuric acid, calcium salt, hydrate (1:1:2)	10101-41-4	1-5%	None	OK				This substance may cause mechanical irritation to eyes and skin. Inhalation of dust may lead to mild respiratory discomfort. Risk during production is managed under HMA's HSEQ protocols. Once incorporated into the concrete, it is fully bound and not expected to pose health risks under normal use. Recycled Content: Post-industrial Nanomaterials: Unknown

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Limestone	1317-65-3	1-5%	None, H315, H318, H319, H335, H350, H372	OK				This substance is corrosive and may cause severe skin and eye burns. Inhalation of dust may lead to respiratory discomfort or lung injury. Risks are managed through Heidelberg's HSEQ system using PPE, ventilation, and emergency wash protocols. Once set in concrete, the material does not present significant health risks under typical use conditions. Recycled Content: Unknown Nanomaterials: No
Calcium oxide	1305-78-8	0.01-1%	H318, H335, H315	OK				This substance is corrosive and may cause severe skin and eye burns. Inhalation of dust may lead to respiratory discomfort or lung injury. Risks are managed through HMA's HSEQ system using PPE, ventilation, and emergency wash protocols. Once set in concrete, the material does not present significant health risks under typical use conditions. Recycled Content: Unknown Nanomaterials: No
White/Off-White Cement								
Cement, portland, chemicals	65997-15-1	15-30%	H315, H318, H335, H317, H319, None, H351, H372	OK				This substance is hazardous to inhale. Risks during the manufacturing stage are mitigated through HMA'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. HMA requires installation personnel 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. Recycled Content: Unknown Nanomaterials: Unknown
Sulfuric acid, calcium salt, hydrate (1:1:2)	10101-41-4	1-5%	None	OK				This substance may cause mechanical irritation to eyes and skin. Inhalation of dust may lead to mild respiratory discomfort. Risks are managed under HMA's HSEQ Management System with appropriate dust controls and OHS procedures. Once incorporated into the concrete mix, the substance is bound and does not pose a health risk under normal use. Recycled Content: Post-industrial Nanomaterials: Unknown
Limestone	1317-65-3	1-5%	None, H315, H318, H319, H335, H350, H372	OK				This substance may cause mild respiratory irritation from dust. Risks during handling are managed through HMA's HSEQ Management System. Once incorporated into the wet mix and cured, the material is bound in the matrix and does not present health hazards under standard use conditions. Recycled Content: None Nanomaterials: Unknown
Calcium oxide	1305-78-8	0.01-1%	H318, H335, H315	OK				This substance is corrosive and may cause severe skin and eye burns. Inhalation of dust may lead to respiratory discomfort or lung injury. HMA controls these risks through its HSEQ procedures, including training, PPE, and ventilation. Once set in the final product, the substance is no longer reactive and does not pose health risks in normal use. Recycled Content: Unknown Nanomaterials: No
Fly Ash								

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Ashes (residues)	68131-74-8	15-30%	None, H319, H331, H314, H302	OK				This substance may cause skin and eye irritation. Inhalation of dust may lead to respiratory discomfort. HMA manages handling risks through its integrated Health Safety Environment and Quality (HSEQ) Management System. The substance is supplied as part of a wet mixture and is fully bound in the cured product, where it poses minimal health risk under normal use. Recycled Content: Unknown Nanomaterials: Unknown
Mullite	1302-93-8	1-5%	None	OK				There are no identifiable hazards related to this substance. Note: Fly Ash composition varies depending on source of power station and of the initial coal. The worst case has been used for this assessment. Recycled Content: None Nanomaterials: Unknown
Silicondioxide	14808-60-7	0.01-1%	IARC 1, None	OK				This substance is hazardous to inhale. Risks during the manufacturing stage are mitigated through HMA's HSEQ procedures. The substance is included in a wet mixture which limits dust generation, although minor exposure may occur during tool cleaning. Installation personnel are required to follow OHS precautions. Once cured in the final product, the substance does not pose health risks under normal use. Recycled Content: None Nanomaterials: No
Ground Granulated Blast Furnace Slag								
Slags, ferrous metal, blast furnace	65996-69-2	15-30%	None	OK				This substance may cause skin and eye irritation. Inhalation of dust may lead to respiratory discomfort. Risks during the manufacturing stage are managed through HMA's integrated Health Safety Environment and Quality (HSEQ) Management System. Installation personnel are required to follow site-specific controls, review the product SDS, and avoid unnecessary handling of dry material. PPE, including respiratory protection, should be used in areas where dust may be generated. This material is delivered as part of a wet mix, significantly reducing exposure risk. Once cured in the final product, it is fully bound and does not present a health risk under normal conditions. Recycled Content: Post-industrial Nanomaterials: Unknown
Silica Fume								
Fumes, silica	69012-64-2	1-5%	None	OK				This substance may cause skin and eye irritation. Inhalation of fine particles may lead to respiratory discomfort. Risks during the manufacturing stage are managed through HMA's HSEQ Management System. Site procedures require installation personnel to review the SDS, implement dust control measures, and avoid unnecessary handling of dry powders. Where exposure to dust is possible, appropriate PPE including respiratory protection must be used. This material is supplied as part of a wet mix, minimising airborne exposure. Once cured in the final product, it is fully bound and does not present a health risk under normal use. Recycled Content: Post-industrial Nanomaterials: Yes

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Charcoal	16291-96-6	0.01-1%	None	OK				This substance may cause skin and eye irritation. Inhalation of dust may lead to respiratory discomfort. HMA's HSEQ procedures ensure exposure controls are in place during handling. Personnel are required to review the SDS, limit contact with dry forms, and apply site dust minimisation strategies. PPE, including respiratory protection, must be used where dust may be generated. This material is supplied as part of a wet mix, reducing dust exposure potential. Once incorporated and cured in the product, it does not present a health risk under standard use. Recycled Content: Post-industrial Nanomaterials: Unknown
Cristobalite	14464-46-1	<0.01%	H372, H373, H350, None, H351, H332, H370, H319, H335, H317, H315, H341, H371	Ok				This substance is hazardous to inhale. Inhalation of fine dust can cause serious chronic health effects, including silicosis. HMA's controls exposure through strict implementation of its HSEQ Management System, including engineering controls, task-specific PPE, and dust suppression strategies. All personnel must be trained, familiar with the SDS, and comply with site-level OHS controls. This substance is part of a wet mix during installation, greatly limiting airborne exposure. Once cured in the final product, it does not pose a health risk under normal conditions. Recycled Content: None Nanomaterials: No
Silica Fume								
Fumes, silica	69012-64-2	1-5%	None	OK				This substance may cause skin and eye irritation. Inhalation of fine particles may lead to respiratory discomfort. Risks are managed through HMA's HSEQ Management System. Site-specific controls include review of the SDS, minimising handling of dry material, and implementing dust suppression. Where dust may be present, PPE including respiratory protection must be used. This material is supplied in a wet mix, reducing exposure potential. Once cured in the final product, it is fully bound and does not present a health risk under normal use. Recycled Content: Post-industrial Nanomaterials: Yes
Magnesium oxide	1309-48-4	0.01-1%	None, H319, H315, H410, H317, H335, H371, H302, H318, H304, H361, H336, H400, H225, H373, H332, H334, H411	OK				This substance may cause skin and eye irritation. Inhalation of dust may lead to respiratory discomfort. HMA mitigates risks through its HSEQ Management System and site protocols requiring dust control, PPE use, and awareness of the product SDS. Personnel must avoid unnecessary contact with dry material. This material is used in a wet mix, which limits dust exposure. In the cured product, it is chemically stable and poses no significant health risk under normal use. Recycled Content: Unknown Nanomaterials: No
Aluminium oxide	1344-28-1	0.01-1%	None, H302, H332, H351	OK				This substance may cause mild eye, skin, or respiratory irritation when in dry powder form. Risks are controlled under HMA's HSEQ Management System through SDS awareness, dust suppression, and appropriate PPE requirements. The material is supplied in a wet mix that reduces airborne risk. Once set in the final product, it is inert and does not present a health hazard under normal conditions. Recycled Content: Unknown Nanomaterials: No

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Magnetite	1309-38-2	0.01-1%	None, H302, H373, H315, H319, H335	OK				This substance may cause skin and eye irritation. Inhalation of dust may lead to respiratory discomfort. HMA's manages risks through strict HSEQ procedures, including proper handling, containment, and PPE use. Site personnel must be trained and familiar with the SDS. This substance is incorporated into a wet mix, limiting exposure. It is chemically stable in the cured product and does not pose a health risk under standard use. Recycled Content: Unknown Nanomaterials: No
Silicondioxide	14808-60-7	0.01-1%	IARC 1, None	OK				This substance is hazardous to inhale. Inhalation of respirable crystalline silica can cause silicosis and long-term lung disease. HMA's mitigates these risks through robust HSEQ controls, including wet processes, dust suppression, exposure monitoring, and mandatory respiratory protection. All personnel must review the SDS and follow site safety procedures. Supplied as part of a wet mix, the substance is safely immobilised in the final product and does not pose a health risk under normal use conditions. Recycled Content: None Nanomaterials: No
Coarse Aggregate								
Naturally occuring rock	Substance	85-100%	None	OK				This substance is Naturally occuring material, which does not pose specific risks under normal use. No H-statements apply.
Recycled Concrete Aggregate, Fine, Coarse & Crushed Glass, Fine, Coarse								
Naturally occuring Sand	Structure / Filler	85-100%	None	OK				This substance is Naturally occuring material, which does not pose specific risks under normal use. No H-statements apply.
Silicondioxide	14808-60-7	85-100%	H372	OK				This substance may cause skin and eye irritation. Inhalation of fine dust may lead to respiratory discomfort. OHS-certified safety measures, including PPE and ventilation, are in place to minimize exposure risks. Once incorporated into the final product, it poses minimal risk. Recycled Content: Unknown Nanomaterials: No
cementitious/water reaction product & ingredients determined not to be hazardous	Ingredients	85-100%	None	OK				Substance Declaration does not pose specific risks under normal use. No H-statements apply.

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Town Water								
water	7732-18-5	5-15%	None	OK				This substance is not hazardous. It does not cause skin or eye irritation, and inhalation poses no risk under normal conditions. OHS-certified safety measures are typically not required beyond standard handling practices. Recycled Content: Unknown Nanomaterials: No
Coarse Aggregate, Fine Aggregate, Slag								
Calcium oxide	1305-78-8	0.01-1%	H318, H335, H315	OK				This substance is corrosive and may cause severe skin and eye burns. Inhalation of dust can lead to respiratory irritation or lung injury. HMA's manages these risks through its HSEQ Management System, including the use of controlled handling practices, PPE, and emergency response procedures. Site personnel are required to follow SDS instructions and avoid contact with dry powder. The material is supplied as part of a wet mix, significantly reducing exposure potential. Once cured in the final product, it no longer presents a health risk under normal use. Recycled Content: Unknown Nanomaterials: No
Silicon dioxide	7631-86-9	0.01-1%	IARC 3, None	OK				This substance may cause skin and eye irritation. Inhalation of dust may lead to mild respiratory discomfort. HMA's controls risks via its HSEQ procedures, requiring review of the SDS, implementation of dust suppression measures, and the use of PPE where necessary. The material is incorporated into a wet mix during production, minimising airborne exposure. Once cured in the final product, it is bound and does not present a health risk under standard use conditions. Recycled Content: Unknown Nanomaterials: No
Aluminium oxide	1344-28-1	0.01-1%	None, H302, H332, H351	OK				This substance may cause mild eye, skin, or respiratory irritation in dust form. HMA's HSEQ Management System ensures that personnel are trained in SDS requirements and protected through dust suppression and PPE use during handling. As part of a wet mix, airborne exposure is minimal. Once incorporated into the cured product, this material is inert and does not pose health risks under normal conditions. Recycled Content: Unknown Nanomaterials: No
Magnesium oxide	1309-48-4	0.01-1%	None, H319, H315, H410, H317, H335, H371, H302, H318, H304, H361, H336, H400, H225, H373, H332, H334, H411	OK				This substance may cause skin and eye irritation. Inhalation of dust may cause respiratory discomfort. Exposure is managed through HMA's HSEQ Management System, with requirements for SDS familiarity, dust minimisation, and PPE use. The material is added to a wet mix, reducing airborne dust risk. Once the product is cured, this substance is immobilised and presents no health hazard under normal use. Recycled Content: Unknown Nanomaterials: No

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Recycled Water								
Calcium dihydroxide	1305-62-0	0.01-1%	H318, H335, H315, None	OK				This substance may cause skin and eye irritation. Inhalation of dust can lead to respiratory discomfort or chemical burns. HMA manages these risks through its integrated HSEQ Management System, including dust suppression, PPE requirements, and safe handling procedures. Site personnel are required to review the SDS and follow site-level controls to prevent contact with dry material. The substance is incorporated into a wet mix, which limits exposure during handling. Once cured in the final product, it is fully bound and does not pose a health risk under normal use. Recycled Content: Unknown Nanomaterials: No
Water	7732-18-5	5-15%	None	OK				Substance Declaration does not pose specific risks under normal use. No H-statements apply.
Admixture, Special Purpose								
sodium sulphate	1305-62-0	0.01-1%	None	OK				This substance may cause skin and eye irritation. Inhalation of dust can lead to respiratory discomfort or chemical burns. HMA's manages these risks through its integrated Health Safety Environment and Quality (HSEQ) Management System, including dust control measures, safe handling protocols, and mandatory PPE. Installation personnel are required to review the SDS and avoid unnecessary contact with dry powder. This material is added as part of a wet mix, which significantly reduces the potential for airborne exposure. Once cured in the final product, it is fully bound and does not pose a health risk under normal use. Recycled Content: Unknown Nanomaterials: No
Admixture, Special Purpose								
Cement, portland, chemicals	65997-15-1	0.01-1%	H315, H318, H335, H317, H319, None, H351, H372	OK				This substance is hazardous to inhale. Inhalation of airborne dust may cause irritation and long-term respiratory conditions such as silicosis due to the presence of crystalline silica. Risks during the manufacturing stage are mitigated through HMA's Health Safety Environment and Quality (HSEQ) Management System, including the use of wet processes, dust control measures, and PPE. Site personnel must review the SDS, follow dust suppression protocols, and avoid handling dry material unnecessarily. The substance is delivered as part of a wet mix, significantly limiting dust generation. Once cured in the final product, it is fully bound and does not present a health risk under normal use. Recycled Content: Unknown Nanomaterials: Unknown
Calcium sulfate	7778-18-9	0.01-1%	H413	OK				This substance may cause skin and eye irritation. Inhalation of dust may lead to respiratory discomfort. Risks are managed under HMA's HSEQ Management System through site dust control procedures, SDS review, and the use of appropriate PPE. It is incorporated as part of a wet mixture, which reduces the potential for airborne exposure. Once cured in the final product, it is fully bound and does not pose a health risk under normal use conditions. Recycled Content: Unknown Nanomaterials: No

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Polymer (synthetic) fibre								
Polypropylene	9003-07-0	0.01-1%	IARC 3, None, H228	OK				This substance may cause skin and eye irritation during high-temperature processing. Inhalation of fumes may lead to respiratory discomfort. OHS-certified safety measures, including PPE and ventilation, are in place to minimize exposure risks. Once incorporated into the final product, it poses minimal risk. Recycled Content: Unknown Nanomaterials: No
other non-hazardous component	other non-hazardous component	0.01-1%	None	OK				Substance Declaration does not pose specific risks under normal use. No H-statements apply.
Polymer (synthetic) fibre								
Proprietary Substance	Performance improver	0.01-1%	None	OK				Substance Declaration does not pose specific risks under normal use. No H-statements apply.
Steel fibre								
100% low carbon steel	Durability / mechanical improvement	1-5%	None	OK				Substance Declaration does not pose specific risks under normal use. No H-statements apply.
Steel fibre								
100% low carbon steel	Durability / mechanical improvement	1-5%	None	OK				Substance Declaration does not pose specific risks under normal use. No H-statements apply.
Glue								
Acetic acid ethenyl ester, polymer with ethene	24937-78-8	0.01-1%	None, H351, H317, H319, H315	OK				This substance may cause mild skin and eye irritation during handling in powder or pellet form. Inhalation of vapours or fumes from high-temperature processing may cause respiratory discomfort. HMA manages risks through its HSEQ Management System, which includes controls on heating processes, SDS review, and use of PPE where thermal decomposition could occur. In concrete applications, this polymer is typically encapsulated in admixtures or introduced in low concentrations. Once cured in the final product, it is stable and does not pose a health risk under normal use. Recycled Content: Unknown Nanomaterials: No
water	7732-18-5	0.01-1%	None	OK				This substance is not hazardous. It does not cause skin or eye irritation, and inhalation poses no risk under normal conditions. OHS-certified safety measures are typically not required beyond standard handling practices. Once incorporated into the final product, it poses no risk. Recycled Content: Unknown Nanomaterials: No
Steel fibre								
Proprietary Substance	Performance improver	1-5%	None	OK				Substance Declaration does not pose specific risks under normal use. No H-statements apply.

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Admixture, Permeability Reducing								
Cement, portland, chemicals	65997-15-1	0.01-1%	H315, H318, H335, H317, H319, None, H351, H372	OK				This substance is hazardous to inhale. Inhalation of airborne dust may cause respiratory irritation and long-term conditions such as silicosis due to its crystalline silica content. HMA manages these risks through its HSEQ Management System, which includes wet processing, dust suppression, PPE, and training. Site personnel must review the SDS and avoid unnecessary handling of dry material. This substance is supplied as part of a wet mix, which significantly reduces airborne exposure. Once cured in the final product, it is fully bound and does not pose a health risk under normal use. Recycled Content: Unknown Nanomaterials: Unknown
Calcium dihydroxide	1305-62-0	0.01-1%	H318, H335, H315, None	OK				This substance may cause skin and eye irritation. Inhalation of dust may result in respiratory discomfort or chemical burns. HMA mitigates these risks through its HSEQ Management System, which includes dust control measures, PPE requirements, and SDS-based training. Site personnel must avoid unnecessary contact with dry powder and adhere to safe handling procedures. Incorporated as part of a wet mix, this material poses minimal exposure risk during handling. Once cured in the final product, it is fully bound and does not present a health hazard under normal use. Recycled Content: Unknown Nanomaterials: No
Silicondioxide	14808-60-7	0.01-1%	IARC 1, None	Ok				This substance is hazardous to inhale. Inhalation of respirable crystalline silica may cause silicosis, lung cancer, and chronic respiratory diseases. HMA strictly controls these risks under its HSEQ Management System through engineering controls, wet processing, PPE use, and mandatory training. Personnel are required to review the SDS and follow site dust minimisation procedures. The material is delivered as part of a wet mix, significantly reducing exposure. Once cured in the final product, it is fully bound and does not pose a health risk under normal use. Recycled Content: None Nanomaterials: No
ingredients determined not to be hazardous	ingredients determined not to be hazardous	0.01-1%	H350	OK				Substance Declaration does not pose specific risks under normal use. No H-statements apply.
Pigment								
Iron hydroxide oxide	20344-49-4	1-5%	None	OK				This substance may cause skin and eye irritation. Inhalation of dust may lead to mild respiratory discomfort. HMA manages these risks through its Health Safety Environment and Quality (HSEQ) Management System, including dust suppression, use of PPE, and personnel training in accordance with the product SDS. Site personnel must follow safe handling procedures and minimise exposure to dry powder. The substance is incorporated into a wet concrete mix, significantly reducing potential exposure. Once cured in the final product, it is chemically stable and does not pose a health risk under normal use. Recycled Content: Unknown Nanomaterials: No

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Anatase (TiO2)	1317-70-0	1-5%	None, H351, H302, H319, H335, H332, H315	OK				This substance may cause skin and eye irritation. Inhalation of dust may lead to mild respiratory discomfort. HMA manages these risks through its Health Safety Environment and Quality (HSEQ) Management System, including dust control measures, PPE use, and staff training in line with the SDS. Site personnel must minimise exposure to airborne dust and follow safe handling procedures. The substance is incorporated into a wet mix, greatly reducing exposure potential. Once cured in the final product, it is chemically stable and poses no health risk during normal use. Recycled Content: Unknown Nanomaterials: No
Diiron trioxide	1309-37-1	1-5%	IARC 3, None, H411	Ok				This substance may cause skin and eye irritation. Inhalation of dust may cause mild respiratory discomfort. HMA manages these risks through its Health Safety Environment and Quality (HSEQ) Management System, including dust control, PPE, and SDS-based training. Site personnel must avoid generating airborne dust and follow safe handling practices. The substance is incorporated into a wet mix, reducing potential for exposure. Once cured in the final product, it is chemically stable and poses no health risk under normal conditions. Recycled Content: Unknown Nanomaterials: No
Triiron tetraoxide	1317-61-9	1-5%	None, H251, H252	OK				This substance may irritate the skin, eyes, and respiratory system if inhaled as dust. HMA controls these risks via its HSEQ Management System, which includes dust suppression, PPE use, and SDS training. Personnel should handle the dry material with care, using appropriate controls to limit dust exposure. It is bound within a wet mix during product use, significantly limiting exposure. In its cured form, it presents no risk under normal use conditions. Recycled Content: Unknown Nanomaterials: No
Chromium (III) oxide	1308-38-9	1-5%	None	OK				This substance may cause mechanical irritation to skin, eyes, or lungs if inhaled as dust. HMA minimises such risks via its HSEQ Management System, incorporating PPE, training, and dust suppression aligned with the SDS. Dry powder handling requires care to reduce airborne dust. The substance is incorporated into a wet mix, limiting user exposure. It becomes chemically stable and inert in the cured product and poses no health risk under normal use. Recycled Content: Unknown Nanomaterials: No
Cobalt chromite blue green spinel	68187-11-1	1-5%	None	OK				This substance may cause irritation to skin, eyes, or respiratory tract if inhaled in dust form. HMA manages these hazards through its HSEQ Management System, including dust suppression, PPE usage, and adherence to SDS protocols. Site handling procedures are designed to minimise dust generation. The substance is incorporated into the wet concrete mix, where exposure potential is low. In the cured product, it is chemically stable and poses no health risk under normal use. Recycled Content: Unknown Nanomaterials: No
Pigment								
Proprietary Substance	decorative / colouring	1-5%	H319, H302, H332, H315, H317, H318, H410	OK				Substance Declaration does not pose specific risks under normal use. No H-statements apply.
Admixture, Air Entrainer, Water Reducer, Retarder, Accelerator, Anti-Washout, Viscosity Modifying, Permeability Reducing, Returned Concrete, Hydration Stabiliser								

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
formic acid … %	64-18-6	0.01-1%	H314	OK				This substance may cause skin and eye irritation. Inhalation of vapors may lead to respiratory discomfort. OHS-certified safety measures, are in place to minimize exposure risks. Recycled Content: Unknown Nanomaterials: No
1,1',1'-nitrilotripropan-2-ol; triisopropanolamine	122-20-3	0.01-1%	H319	OK				This substance may cause skin and eye irritation. Inhalation of vapors may lead to respiratory discomfort or central nervous system effects. OHS-certified safety measures, are in place to minimize exposure risks. Recycled Content: Unknown Nanomaterials: No
sodium hydroxide; caustic soda	1310-73-2	0.01-1%	H314	OK				This substance may cause severe skin and eye irritation or burns. Inhalation of dust or mist may lead to respiratory discomfort. OHS-certified safety measures, are in place to minimize exposure risks. Recycled Content: Unknown Nanomaterials: No
calcium chloride	10043-52-4	0.01-1%	H319	OK				This substance may cause skin and eye irritation. Inhalation of dust may lead to respiratory discomfort. OHS-certified safety measures, are in place to minimize exposure risks. Recycled Content: Unknown Nanomaterials: No
D-glucono-1,5-lactone	90-80-2	0.01-1%	None	OK				This substance may cause skin and eye irritation. Inhalation of vapors may lead to respiratory discomfort or organ effects with prolonged exposure. OHS-certified safety measures, are in place to minimize exposure risks. Recycled Content: Unknown Nanomaterials: No
Sodium thiocyanate	540-72-7	0.01-1%	H302, H312, H332, H412, H318	OK				This substance may cause skin and eye irritation. Inhalation may lead to respiratory or systemic effects. OHS-certified safety measures, are in place to minimize exposure risks. Recycled Content: Unknown Nanomaterials: N
Calcium nitrate	10124-37-5	1-5%	H319, H315, H302, H272, H318, H271, None, H335, H332, H400, H312, H334	OK				This substance may cause skin and eye irritation. Inhalation of dust may lead to respiratory discomfort or systemic toxicity if poorly managed. OHS-certified safety measures, are in place to minimize exposure risks. Recycled Content: Unknown Nanomaterials: No

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Proprietary Substance	Performance improver	0.01-1%	H226, H290, H302, H314, H331, H335, AUH071, H332, H315, H317, H318, H410, H401, H412, AUH032, H319	OK				Substance Declaration does not pose specific risks under normal use. No H-statements apply.
Admixture, Anti-Washout, Water Reducer (Medium, High Range), Mix Enhancing, Accelerator								
1,1',1'-nitrilotripropan-2-ol; triisopropanolamine	122-20-3	0.01-1%	H319	OK				This subst This substance may cause skin and eye irritation and may be harmful if inhaled. HMA's manages potential risks through its HSEQ Management System, incorporating ventilation controls, PPE, and SDS-based training. Personnel are instructed to avoid direct contact with the substance and follow safe handling procedures. It is used in very small amounts and is well-dispersed in the wet mix, minimising exposure. Once cured in the final product, it is not expected to pose a health risk under normal use. Recycled Content: Unknown Nanomaterials: No
Xylenesulphonic acid	25321-41-9	0.01-1%	H319, H335, H314, H290, H318, H315	OK				This substance may cause mild skin or eye irritation. HMA's controls any associated risks through its HSEQ Management System, including PPE, safe handling procedures, and adherence to SDS guidance. Used in small quantities and incorporated into a wet mix, this substance presents minimal risk of exposure. Once cured, it is not expected to present any health hazards in the final product under normal conditions of use. Recycled Content: Unknown Nanomaterials: No
sulphuric acid ... %	7664-93-9	0.01-1%	NULL, H314	OK				This substance is corrosive and can cause severe skin burns and eye damage in concentrated form. Inhalation of vapour or mist may cause respiratory irritation. HMA's strictly manages the use of this substance via its HSEQ Management System, including closed handling systems, PPE, training, and adherence to SDS protocols. When used, it is neutralised or consumed in reaction during processing and is not present in free form in the final product. The cured material does not pose a health risk under normal use. Recycled Content: None Nanomaterials: No
1,2-xylene; 1,3-xylene; 1,4-xylene	1330-20-7	0.01-1%	IARC 3, H226 , H332 , H312 , H315	OK				This substance is flammable and may cause skin and eye irritation, as well as dizziness or respiratory irritation if inhaled in vapour form. HMA minimises these risks via its HSEQ Management System, including engineering controls, PPE, and strict SDS adherence. It is used in closed or controlled systems and incorporated into the mix where its volatility and exposure potential are greatly reduced. The substance is not present in the final cured concrete and poses no health risk under normal use conditions. Recycled Content: Unknown Nanomaterials: No
L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid	79-33-4	0.01-1%	"H314 , H318"	OK				This substance may cause mild skin and eye irritation. HMA mitigates these risks through its HSEQ Management System, including PPE use and training in line with the SDS. It is typically used in dilute form and incorporated into the wet mix, limiting exposure. Once the product is cured, this substance is either reacted or immobilised and does not pose a health risk under normal use. Recycled Content: Unknown Nanomaterials: No

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Sodium thiocyanate	540-72-7	0.01-1%	H302, H312, H332, H412, H318	OK				This substance is corrosive and may cause severe skin burns, eye damage, and respiratory irritation in its concentrated form. HMA manages these risks through its HSEQ Management System, including closed system handling, PPE, and SDS-based training. When used, sulfuric acid is neutralised or consumed in the formulation process and is not present in its free form in the final concrete product. The cured material poses no health risk under normal use. Recycled Content: None Nanomaterials: No
Edetate sodium tetrahydrate	13235-36-4	<0.01%	H302, H319, H315, H335, H318, H332, H373, None, H412, H411	OK				This substance may cause skin and eye irritation and respiratory discomfort if inhaled as dust or mist. HMA manages these risks via its HSEQ Management System, including the use of PPE, ventilation, and SDS training. It is incorporated in small amounts into the wet mix, reducing potential for exposure. Once cured, the substance is chemically stable and does not pose a health risk under normal use conditions. Recycled Content: Unknown Nanomaterials: No
Calcium nitrate	10124-37-5	1-5%	H319, H315, H302, H272, H318, H271, None, H335, H332, H400, H312, H334	OK				This substance is a strong oxidiser and may pose irritation or inhalation hazards in its raw form. HMA strictly manages this substance through its HSEQ Management System, ensuring it is handled with appropriate PPE and engineering controls in line with SDS guidance. When used, it is typically consumed in chemical reactions and not present in the final cured concrete product. Under normal use, the material poses no health risk. Recycled Content: Unknown Nanomaterials: No
2,2',2"-nitrilotriethanol	102-71-6	0.01-1%	IARC 3, None, H318, H361	OK				This substance may cause mild skin, eye, and respiratory irritation. HMA manages these risks via its HSEQ Management System, including PPE, ventilation, and training according to the SDS. It is used in small quantities and blended into the wet mix, which limits exposure. In the cured concrete product, it is chemically bound and does not pose a health risk under normal conditions of use. Recycled Content: Unknown Nanomaterials: No
Proprietary Substance	Performance improver	0.01-1%	H226, H290, H302, H314, H331, H335, AUH071, H332, H315, H317, H318, H410, H401, H412, AUH032, H319	OK				Substance Declaration does not pose specific risks under normal use. No H-statements apply.
Admixture, Shrinkage Reducing								
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	112-34-5	0.01-1%	H319	OK				This substance may cause eye and skin irritation and may lead to mild respiratory discomfort if inhaled as vapour or mist. HMA manages these risks through its HSEQ Management System, including PPE, engineering controls, and SDS-aligned training. The substance is used in small quantities and incorporated into a wet mix, significantly reducing exposure. In the cured concrete product, it is not present in free form and poses no health risk under normal use. Recycled Content: Unknown Nanomaterials: No

Ingredient Name	Cas Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Disruptor	Reach Compliance	Ingredient Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
2,2'-(methylimino)diethanol; N-methyldiethanolamine	105-59-9	0.01-1%	H319	OK				This substance may cause mild skin and eye irritation. Inhalation of vapour or mist may result in slight respiratory discomfort. HMA manages these risks through its HSEQ Management System, which includes PPE, ventilation, and training in accordance with the SDS. The substance is used in limited quantities and added to a wet mix, reducing exposure potential. In the final cured product, it is chemically bound and poses no health risk under normal use. Recycled Content: Unknown Nanomaterials: No
2-methylaminoethanol; N-methylethanolamine; N-methyl-2-ethanolamine; N-methyl-2-amino ethanol; 2-(methylamino)ethanol	109-83-1	0.01-1%	"H312 , H302 , H314"	OK				This substance is flammable and may cause severe irritation to skin, eyes, and respiratory tract. HMA applies stringent control measures through its HSEQ Management System, including handling under closed systems, PPE use, and SDS-based procedures. It is used in very small quantities and is not present in free form in the cured product. The final product does not pose a health risk under normal conditions of use. Recycled Content: None Nanomaterials: No
Admixture, Returned Concrete								
Aluminum sodium oxide	11138-49-1	1-5%	H318, H290, H314	OK				This substance may cause mild skin and eye irritation. Inhalation of dust may lead to slight respiratory discomfort, particularly in sensitive individuals. OHS-certified safety measures, are in place to minimize exposure risks. Recycled Content: Unknown Nanomaterials: No
Admixture, Returned Concrete								
Proprietary Substance	Reclaimer	0.01-1%	None	OK				Substance Declaration does not pose specific risks under normal use. No H-statements apply.
Proprietary	Accelerator	0.01-1%	None	OK				There are no declared hazards related to this substance. Recycled Content: None Nanomaterials: None

* No GHS H-Statement classification

Comments:

WHS - Workplace Health and Safety
SHE - Safety Health and Environment