5000-30-SL by NRMCA

Disclaimer: Reference Use Only This document is not intended to serve as a Health Product Declaration. It is solely provided for reference purposes.

Health Product Declaration v2.3

created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: (available when published)

CLASSIFICATION: 03 30 00 Cast-in-Place Concrete

PRODUCT DESCRIPTION: National Benchmark average for 1m3 of Ready Mixed Concrete; Compressive Strength Range 4001-5000 psi (27.59-34.47 MPa) and 30-39% Slag.

Section 1: Summary

CONTENT INVENTORY

- Inventory Reporting Format
- Nested Materials Method
 Basic Method

Threshold Disclosed Per

- Material
- O Product
- Threshold Level • 100 ppm • 1,000 ppm • Per GHS SDS • Other

Residuals/Impurities Evaluation Completed in 8 of 8 Materials

Explanation(s) provided for Residuals/Impurities? • Yes O No

Nested Method / Product Threshold

For all contents above the threshold,	the manufacturer has:
Characterized	• Yes O No
Provided weight and role.	
Screened	• Yes O No
Provided screening results using HPL	C-approved
methods.	
Identified	• Yes O No
Provided name and CAS RN or other	identifier.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY

GREENSCREEN SCORE | HAZARD TYPE

AGGREGATE [LIMESTONE BM-3dg *QUARTZ* BM-1 | CAN | MAM | GEN] PORTLAND CEMENT [PORTLAND CEMENT LT-P1 | CAN | END | MAM] WATER [WATER (PRIMARY CASRN IS 7732-18-5) BM-4] SLAG [BLAST FURNACE SLAG LT-UNK] ACCELERATING ADMIXTURE [WATER (PRIMARY CASRN IS 7732-18-5) BM-4] SUPERPLASTICIZER [WATER (PRIMARY CASRN IS 7732-18-5) BM-4] WATER REDUCING ADMIXTURE [] ADDITIVE 2 []

VOLATILE ORGANIC COMPOUND (VOC) CONTENT VOC Content data is not applicable for this product category.

Number of Greenscreen BM-4/BM3 contents ... 4

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1, BM-1 Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD. This HPD was produced using primary information from the manufacturer, including CAS numbers and SDS when needed. Every effort has been made to report the substances in this product by the manufacturer to the listed threshold. This is a voluntary, self-reported effort. Any errors or omissions shall be considered a human error and therefore reported to the manufacturer. The manufacturer shall not be liable for omissions.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: Inherently non-emitting source per LEED

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

C Yes

No

PREPARER: Self-Prepared VERIFIER: VERIFICATION #: SCREENING DATE: 2023-08-17 PUBLISHED DATE: Not published EXPIRY DATE: Not published



This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

AGGREGATE	%: 72.8600		54			
RODUCT THRESHOLD: 100 pm	RESIDUALS AND IMPU Yes	JRITIES EVALUAT			TERIAL TYPE: Geolo terial	gically Derived
ESIDUALS AND IMPURITIES M and impurities are considered for A/I) is the same as that applied aventory Threshold do not need eviewed scientific articles. For urposes only and are not a gua atabases for researching potentiate sted, then no residuals or impu-	ollowing the HPD Best Pra- to intentionally added sub d to be reported on the HP this product, no actual ma arantee of presence in the ntial residuals and impuriti	ctice Guidance, 10 ostances, i.e., 100 PD." This includes terial has been tes actual building ma es. Any R/I above	0.02.17, ve ppm or 10 average da sted. There aterial. Pha the thresh	rsion 1 "The thre 00 ppm. Residua ata declared in the fore, residuals a ros and PubChe old shall be liste	eshold applied to Res als and impurities bel he common product and impurities are for em (formerly TOXNET	siduals and Impurit low the declared database or peer- informational) are the main
THER MATERIAL NOTES: Agg ortland cement, are an essenti		materials such as	sand, rour	nd gravel, or cru	shed stone that, alon	g with water and
LIMESTONE		- +?				ID: 1317-65
HAZARD DATA SOURCE: Ph	aros Chemical and Mater	ials Library		HAZARD	SCREENING DATE:	2023-08-17 8:39:4
%: 99.0000 Gree	nScreen: BM-3dg	RC:	UNK	NANO: No	SUBSTANCE R	OLE: Filler
HAZARD TYPE	LIST NAME AND SC	DURCE	١	VARNINGS		
None found				No warn	ings found on HPD F	Priority Hazard List
ADDITIONAL LISTINGS	LIST NAME AND SC	DURCE	ſ	OTIFICATION		
None found			54	Nol	istings found on Add	itional Hazard List
SUBSTANCE NOTES: POTEI limestone are examples) con between 0.1% and 1% quart	tain crystalline silica in the	form of quartz." (USGS Crys	stalline Silica Pri		
QUARTZ						ID: 14808-60
HAZARD DATA SOURCE: Ph	aros Chemical and Mater	ials Library		HAZARD	SCREENING DATE:	2023-08-17 8:39:
%: 0.1000 - 1.0000	GreenScreen: BM-1	RC:	UNK	NANO: No	SUBSTANCE ROLE:	Impurity/Residual

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CAN	МАК	Carcinogen Group 1 - Substances that cause cancer in man
CAN	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicit - Category 1A or 1B]
CAN	GHS - New Zealand	Carcinogenicity category 1
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
GEN	GHS - Japan	H341 - Suspected of causing genetic defects [Germ cel mutagenicity - Category 2]
МАМ	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
МАМ	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard List

SUBSTANCE NOTES: Per Pharos database quartz =1% mass fraction of limestone as an impurity.

	C.K	
PORTLAND CEMENT	%: 14.0400	
PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes	MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: Impurities listed above the threshold are noted in this HPD by Quartz or Pharos databases. Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD." Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities.

OTHER MATERIAL NOTES: TSCA Definition 2008: Portland cement is a mixture of chemical substances produced by burning or sintering at high temperatures (greater than 1200.degree.C (2192.degree.F)) raw materials which are predominantly calcium carbonate, aluminum oxide, silica, and iron oxide. The chemical substances which are manufactured are confined in a crystalline mass. This category includes all of the chemical substances specified below when they are intentionally manufactured in the production of Portland cement. The primary members of the category are Ca2SiO4 and Ca3SiO5. Other compounds listed below may also be included in combination with these primary substances.: CaAl2O4; CaAl4O7; CaAl12O1; Ca3Al2O6; Ca12Al14O33; CaO; Ca2Fe2O5; Ca2Al2SiO7; Ca4Al6SO16; Ca12Al14Cl2O32; Ca12Al14F2O32; Ca4Al2Fe2O10; Ca6A14Fe2O15 (National Library of Medicine Record)

PORTLAND CEMENT

ID: 65997-15-1

AZARD DATA SOURCE: Ph	aros Chemical and Materials Library		HAZARD SCREENING DATE: 2023-08-17	8:39:4
%: 90.0000 - 95.0000	GreenScreen: LT-P1	RC: UNK	NANO: No SUBSTANCE ROLE: Binder	
HAZARD TYPE	LIST NAME AND SOURCE	5	WARNINGS	
CAN	МАК		Carcinogen Group 3B - Evidence of carcinogenic obtained but not sufficient for classification	effects
END	TEDX - Potential Endocrine Disr	ruptors	Potential Endocrine Disruptor	
МАМ	GHS - Japan		H372 - Causes damage to organs through prolong repeated exposure [Specific target organs/system toxicity following repeated exposure - Category 1]	ic
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No listings found on Additional Hazar	d List

 WATER
 %: 7.0600

 PRODUCT THRESHOLD: 100 ppm
 RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes
 MATERIAL TYPE: Other: Water

RESIDUALS AND IMPURITIES NOTES: Impurities listed above the threshold are noted in this HPD by Quartz or Pharos databases. Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD." Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities.

OTHER MATERIAL NOTES: No residuals or impurities are registered for this substance Per Pharos database.

WATER (PRIMARY CASR	N IS 7732-18-5)				ID: 1371582-34-1
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD S	SCREENING DATE:	2023-08-17 8:39:44
%: 100.0000	GreenScreen: BM-4	RC: UNK	NANO: No	SUBSTANCE R	OLE: Diluent
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found		3	No warnir	ngs found on HPD F	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
EXEMPT	European Union / European Cor (EU EC)	nmission	EU - REACH Exem	nptions	
			Exempted from RI safety	EACH Annex IV listi	ng due to intrinsic
52					
SUBSTANCE NOTES: No impurities are available for this substance Per Pharos database.					

SLAG	%: 6.0100	64	
PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes	NO	MATERIAL TYPE: Other: Industrial waste/ By- product

RESIDUALS AND IMPURITIES NOTES: Impurities listed above the threshold are noted in this HPD by Quartz or Pharos databases. Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD." Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities.

OTHER MATERIAL NOTES: Residuals or impurities are quantitively measured and noted in this HPD when greater than or equal to 100ppm.

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BLAST FURNACE SLA	u 				ID: 65996-69-2
HAZARD DATA SOURC	E: Pharos Chemical and Mate	rials Library	HAZA	RD SCREENING DATE:	2023-08-17 8:41:59
%: 99.0000	GreenScreen: LT-UNK	RC: Pre	C NANO: No	o SUBSTANCE F	OLE: Filler
HAZARD TYPE	LIST NAME AND SO	OURCE	WARNINGS		
None found			No w	varnings found on HPD F	Priority Hazard Lists
ADDITIONAL LISTING	S LIST NAME AND S	OURCE	NOTIFICATIO	N	
None found			Ν	No listings found on Add	litional Hazard Lists

SUBSTANCE NOTES: 100% Pre consumer/Post Industrial recycled content.

%: 0.0200

The majority of components in Granulated Blast Furnace Slag are various glassy Metallic Silicates (Iron, Calcium, Magnesium, Aluminum, and Titanium Silicates), including: Dicalcium Silicate (Ca2SiO4) 14284-23-2, Merwinite (Ca3MgSi2O8) 13813-64-4, and Gehlenite (Ca2Al2SiO7) 1302-56-3. According to the Pharos Database residuals and impurities are listed at an unknown threshold and can be: "Blast furnace slag is a nonmetallic coproduct produced in the process [of iron production]. It consists primarily of silicates, aluminosilicates, and calcium-alumina-silicates."

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ACCELERATING ADMIXTURE

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD." This includes average data declared in the common product database or peer-reviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities.

OTHER MATERIAL NOTES: To complete this HPD peer-reviewed quality data has been used to fill in the gaps. Per the SDS there are no substances listed as hazardous in the additive. The Quartz or Pharos database and the European Federation of Concrete Admixtures Association (EFCA)- set accelerators EPD have been used for primary information. Per the EPD: The main raw materials used for set accelerators are aluminium sulphate, formates, fluorides, aluminates, amorphous aluminium hydroxide, carbonates, silicates and ethanolamines. Defoaming agents and preservatives are added as minor components and auxiliaries. Active substance concentration lies between 10 and 100% by mass. The typical dosage volumes for use in concrete are between 1 and 3% by mass, in terms of the cement weight. Shotcrete accelerators are used in doses of 3 to 12% by mass in relation to the cement weight.

The products covered by this EPD typically contain the following proportions by mass of constituent materials and auxiliaries referred to: Aluminium sulphate*: max. 70 % Formates*: max. 15 % Aluminates*: max. 50 % Amorphous aluminium hydroxides*: max. 20 % Citrates*: max. 50 % Silicates*: max. 2 % Sulfates*: max. 10 % Ethanolamines*: max. 10 % Nitrates*: max. 50 % Org. acids*: max. 10 % Thiocyanates*: max. 25 % Additives: max. 5 % Water: approx. 30 - 90 %.

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WATER (PRIMARY CASRN IS 773	2-18-5)	ID: 652133-48-7		
HAZARD DATA SOURCE: Pharos	Chemical and Materials Library	HAZARD SCREENING DATE: 2023-08-17 8:39:43		
%: 60.0000 - 90.0000	GreenScreen: BM-4 RC: UNK	NANO: No SUBSTANCE ROLE: Diluent		
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS		
None found	Dro	No warnings found on HPD Priority Hazard Lists		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION		
EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions Exempted from REACH Annex IV listing due to intrinsic safety		
SUBSTANCE NOTES: No impurities are registered for this substance Per Pharos Database.				
SUPERPLASTICIZER	%: 0.0100			
PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVALUATION	COMPLETED: Yes MATERIAL TYPE: Polymeric Material		

RESIDUALS AND IMPURITIES NOTES: Impurities listed above the threshold are noted in this HPD by Quartz or Pharos databases. Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold.

OTHER MATERIAL NOTES: To complete this HPD peer-reviewed quality data has been used to fill in the gaps. Per the SDS there are no substances listed as hazardous in the additive. The Quartz or Pharos database and the European Federation of Concrete Admixtures Association (EFCA)- Plastizicer EPD have been used for primary information. Per the EPD: "Plasticizers and superplasticizers essentially contain either lignosulphonate, naphthalene sulphonate, melamine sulphonate and polycarboxylate/ polycarboxylic or mixtures thereof. Defoaming agents and preservatives are added as minor components and auxiliaries. Active substance concentration lies between 10 and 40% by mass. The typical dosage of plasticizers lies between 0.2 and 1.6% (referred to the finished product) by mass in relation to the cement weight. The typical dosage of superplasticizers lies between 0.4 and 2.0% by mass in relation to the cement weight. The products covered by this EPD typically contain the following proportions by mass of constituent materials and auxiliaries referred to: Lignosulphonate*: max. 40 % Naphthalene sulphonate*: max. 45 % Polycarboxylate*: max. 45 % Polyarylether max. 35 % Na-gluconate max. 35 % Additives: max. 5 % Water: approx. 55 - 75 %".

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WATER (PRIMARY CASRN IS 7732-18-5)		0			ID: 652133-48-7	
	HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD	SCREENING DATE:	2023-08-17 8:39:45
	%: 70.0000 - 75.0000	GreenScreen: BM-4	RC: UNK	NANO: No	SUBSTANCE RO	OLE: Diluent
	HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
	None found			No warni	ngs found on HPD P	Priority Hazard Lists
	ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
	EXEMPT	European Union / European Com	nmission	EU - REACH Exer	nptions	
		(EU EC)		Exempted from R safety	EACH Annex IV listir	ng due to intrinsic

SUBSTANCE NOTES: No impurities are registered for this substance Per the Pharos database.

WATER REDUCING ADMIXTURE %: 0.0050

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

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RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD."

OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.

ADDITIVE 2 %: 0.0020

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD."

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OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

Inherently non-emitting source per LEED

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2023-08-05 00:00:00 **EXPIRY DATE:**

CERTIFIER OR LAB: None

APPLICABLE FACILITIES: This is not facility based. **CERTIFICATE URL:**

CERTIFICATION AND COMPLIANCE NOTES: Per the LEED v4.1 standard for Building Design and Construction, page 207, Concrete is a nonemitting source. No VOC testing for emissions is necessary.

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

Request specific mix design and HPD from your concrete supplier.

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MANUFACTURER INFORMATION

MANUFACTURER: NRMCA ADDRESS: 66 Canal Center Plaza Alexandria, Virginia 22314 COUNTRY: United States WEBSITE: www.nrmca.org CONTACT NAME: James Bogdan TITLE: VP, Sustainability Initiatives PHONE: 4124204138 EMAIL: jbogdan@nrmca.org

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity CAN Cancer DEV Developmental toxicity END Endocrine activity EYE Eye irritation/corrosivity GEN Gene mutation GLO Global warming LAN Land toxicity MAM Mammalian/systemic/organ toxicity MUL Multiple NEU Neurotoxicity NF Not found on Priority Hazard Lists OZO Ozone depletion PBT Persistent, bioaccumulative, and toxic PHY Physical hazard (flammable or reactive) REP Reproductive RES Respiratory sensitization SKI Skin sensitization/irritation/corrosivity UNK Unknown

LT-P1 List Translator Possible 1 (Possible Benchmark-1) LT-1 List Translator 1 (Likely Benchmark-1) LT-UNK List Translator Benchmark Unknown NoGS No GreenScreen.

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, www.greenscreenchemicals.org, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

Recycled Types

GreenScreen (GS)

PreC Pre-consumer recycled content PostC Post-consumer recycled content UNK Inclusion of recycled content is unknown None Does not include recycled content

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement) **BM-2** Benchmark 2 (use but search for safer substitutes)

BM-1 Benchmark 1 (avoid - chemical of high concern)

BM-U Benchmark Unspecified (due to insufficient data)

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material Nested Method / Product Threshold Substances listed within each material per threshold indicated per product Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology Third Party Verified Verification by independent certifier approved by HPDC Preparer Third party preparer, if not self-prepared by manufacturer Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

• a method for the assessment of exposure or risk associated with product handling or use,

• a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this

HPD and for compliance with the HPD standard noted.