6000-40-FA by NRMCA

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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 5001-6000 psi (34.48-41.37 MPa) and 40-49% Fly Ash.

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 7 of 7 Materials

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

Nested Method / Product Threshold

For all contents above the threshold	d, the manufacturer has:
Characterized	• Yes O No
Provided weight and role.	
Screened	• Yes O No
Provided screening results using Hi	PDC-approved
methods.	
Identified	• Yes O No
Provided name and CAS RN or othe	er 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] FLY ASH [FLY ASH LT-UNK] WATER [WATER (PRIMARY CASRN IS 7732-18-5) BM-4] ACCELERATING ADMIXTURE [WATER (PRIMARY CASRN IS 7732-18-5) BM-4] SUPERPLASTICIZER [WATER (PRIMARY CASRN IS 7732-18-5) BM-4] WATER REDUCING ADMIXTURE []

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?

- © 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	%: 68.1300	10.		
PRODUCT THRESHOLD:	100 RESIDUALS AND IMPURITIES E Yes	VALUATION COMPLETED:	MATERIAL TYPE: Geol Material	logically Derived
and impurities are consider (R/I) is the same as that an Inventory Threshold do no reviewed scientific articles purposes only and are not databases for researching listed, then no residuals of OTHER MATERIAL NOTES	TIES NOTES: Impurities listed above the tered following the HPD Best Practice Guid oplied to intentionally added substances, of need to be reported on the HPD." This i s. For this product, no actual material has t a guarantee of presence in the actual bu g potential residuals and impurities. Any R r impurities are common in that substance S: Aggregates are inert granular materials	dance, 10.02.17, version 1 " i.e., 100 ppm or 1000 ppm. ncludes average data decla been tested. Therefore, res ilding material. Pharos and /I above the threshold shall e above the threshold.	The threshold applied to Re Residuals and impurities b ared in the common produc siduals and impurities are for PubChem (formerly TOXNE I be listed on the HPD; othe	esiduals and Impurities elow the declared t database or peer- or informational ET) are the main rwise, if none are
Portiand cement, are an e	ssential ingredient in concrete.			
LIMESTONE				ID: 1317-65-3
HAZARD DATA SOURCE	E: Pharos Chemical and Materials Libra	ry H/	AZARD SCREENING DATE:	2023-08-17 21:32:07
%: 99.0000	GreenScreen: BM-3dg	RC: UNK NAN	O: No SUBSTANCE	ROLE: Filler
HAZARD TYPE	LIST NAME AND SOURCE	WARNIN	GS	
None found		52	No warnings found on HPD	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFIC	ATION	
None found			No listings found on Ad	Iditional Hazard Lists
limestone are examples	POTENTIAL RESIDUAL: "Building materia s) contain crystalline silica in the form of c quartz. (MSHA MSDS & Specialty MSDS)	quartz." (USGS Crystalline S	Silica Primer) Limestone typ	-
QUARTZ		1.30		ID: 14808-60-7
HAZARD DATA SOURCE	E: Pharos Chemical and Materials Libra	iry H/	AZARD SCREENING DATE:	2023-08-17 21:32:07
%: 0.1000 - 1.0000	GreenScreen: BM-1	RC: UNK NANO:	No SUBSTANCE ROLE	E: 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 [Carcinogenicity - 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 cell 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 Lists
SUBSTANCE NOTES: Per Pha	ros database quartz =1% mass fraction of limesto %: 14.4200	one as an impurity.
RODUCT THRESHOLD: 100	RESIDUALS AND IMPURITIES EVALUATION CO	OMPLETED: MATERIAL TYPE: Geologically Derived Material
nd impurities are considered foll R/I) is the same as that applied to	DTES: Impurities listed above the threshold are no lowing the HPD Best Practice Guidance, 10.02.17 o intentionally added substances, i.e., 100 ppm of to be reported on the HPD." Pharos and PubCher	oted in this HPD by Quartz or Pharos databases. Residuals , version 1 "The threshold applied to Residuals and Impuritie r 1000 ppm. Residuals and impurities below the declared m (formerly TOXNET) are the main databases for researching

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)

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HAZARD DATA SOURCE: Ph	aros Chemical and Materials Libra	ry	HAZARD S	CREENING DATE:	2023-08-17 21:32:0
%: 90.0000 - 95.0000	GreenScreen: LT-P1	RC: UNK	NANO: No	SUBSTANCE F	ROLE: Binder
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
CAN	МАК		Carcinogen Group 3B - Evidence of carcinogenic effect but not sufficient for classification		carcinogenic effects
END	TEDX - Potential Endocrine D	lisruptors	Potential Endocrine Disruptor		
МАМ	GHS - Japan		repeated exposur	amage to organs th re [Specific target o repeated exposure	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	10	NOTIFICATION		
None found			No li	stings found on Ad	ditional Hazard Lists

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

FLY ASH	%: 9.6000	2.46	
PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes	1	MATERIAL TYPE: Other: Industrial Waste/ By- product

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." 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. 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: Fly ash is a by-product of coal-fired electric and steam generating plants.

Fly ash utilization, especially in concrete, has significant environmental benefits including: (1) increasing the life of concrete roads and structures by improving concrete durability, (2) net reduction in energy use and greenhouse gas and other adverse air emissions when fly ash is used to replace or displace manufactured cement, (3) reduction in amount of coal combustion products that must be disposed in landfills, and (4) conservation of other natural resources and materials

FLY ASH			ID: 681	131-74-8
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-08-17	21:32:09
%: 99.0000 Gi	reenScreen: LT-UNK	RC: PreC	NANO: No SUBSTANCE ROLE: Filler	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No warnings found on HPD Priority Hazar	rd Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No listings found on Additional Haza	rd Lists
utility or industrial boilers. titanium, and sulfur are al	Fly ash consists primarily of oxides of silico	n, aluminum	ntent, produced from the combustion of coal in elec n iron and calcium. Magnesium, potassium, sodium admixture in concrete, fly ash is classified as either	٦,
WATER PRODUCT THRESHOLD: 100	%: 7.8100 Dppm RESIDUALS AND IMPURITIES EV		COMPLETED: Yes MATERIAL TYPE: Other:	
R/I) is the same as that appl nventory Threshold do not n potential residuals and impu	ied to intentionally added substances, i.e., 10 need to be reported on the HPD." Pharos and	00 ppm or 10 I PubChem (version 1 "The threshold applied to Residuals and Iu 1000 ppm. Residuals and impurities below the decla (formerly TOXNET) are the main databases for rese ace Per Pharos database.	ared
WATER (PRIMARY CASRN	I IS 7732-18-5)		ID: 13715	582-34-1
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-08-17	21:32:09
%: 100.0000	GreenScreen: BM-4 F	RC: UNK	NANO: No SUBSTANCE ROLE: Diluent	t
HAZARD TYPE	LIST NAME AND SOURCE	9,	WARNINGS	
None found	U V		No warnings found on HPD Priority Haza	rd Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
EXEMPT	European Union / European Comm	ission	EU - REACH Exemptions	
	(EU EC)		Exempted from REACH Annex IV listing due to int safety	rinsic
SUBSTANCE NOTES: No	impurities are available for this substance Pe	er Pharos da	atabase.	

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 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 %.

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: Pharos Chemical and Materials Library %: 80.0000 - 90.0000 GreenScreen: BM-4 RC: UNK NANO: No SUBSTANCE RO HAZARD TYPE LIST NAME AND SOURCE WARNINGS No warnings found on HPD P	ID: 652133-48-7
HAZARD TYPE LIST NAME AND SOURCE WARNINGS	2023-08-17 21:32:10
	OLE: Diluent
None found No warnings found on HPD P	
	Priority Hazard Lists
ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION	
EXEMPT European Union / European Commission EU - REACH Exemptions (EU EC)	
Exempted from REACH Annex IV listin safety	ng due to intrinsic

SUBSTANCE NOTES: Percentages specified are typical and do not represent a specification.

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 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 %".

WATER (PRIMARY CASRN IS 7732-18-5)

ID: 652133-48-7

HAZARD DATA SOURCE: Pha	ros Chemical and Materials Libr	ary	HAZARD S	CREENING DATE:	2023-08-17 21:32:10
%: 70.0000 - 75.0000	GreenScreen: BM-4	RC: UNK NA	ANO: No	SUBSTANCE	ROLE: Diluent
HAZARD TYPE	LIST NAME AND SOURCE	WARN	IINGS		
None found	V		No warnii	ngs found on HPD	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIF	ICATION		
EXEMPT	European Union / European (EU EC)	Commission EU - F	REACH Exen	nptions	
		Exemp safety	•	EACH Annex IV lis	ting due to intrinsic
SUBSTANCE NOTES: No imp	urities are registered for this subs	tance Per the Pharos data	abase.		
		var.			

WATER REDUCING ADMIXTURE %: 0.0050

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."

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 APPLICABLE FACILITIES: This is not facility based.	ISSUE DATE: 2023-08-05 00:00:00 EXPIRY DATE:	CERTIFIER OR LAB: None
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.





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.