# 2500-50-FA/SL 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 0-2500 psi (0-17.24 MPa) and Fly Ash  $\geq$  20% and Slag  $\geq$  30%.

# Section 1: Summary

## **CONTENT INVENTORY**

- **Inventory Reporting** Format
- Nested Materials Method C Basic Method

### Threshold Disclosed Per

O Material

• Product

Threshold Level • 100 ppm C 1,000 ppm O Per GHS SDS O Other

**Residuals/Impurities Evaluation** Completed in 8 of 8 Materials

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

# **Nested Method / Product Threshold**

For all contents above the threshold, the ma	anufacturer has:
Characterized	O Yes O No
Provided weight and role.	
Screened	• Yes O No
Provided screening results using HPDC-app	proved
methods.	
Identified	• Yes O No
Provided name and CAS RN or other identify	ïer.

## 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 IMPI IRITY

# GREENSCREEN SCORE | HAZARD TYPE

AGGREGATE [ LIMESTONE BM-3dg QUARTZ BM-1 | CAN | MAM | GEN ] WATER [ WATER (PRIMARY CASRN IS 7732-18-5) BM-4] PORTLAND CEMENT [ PORTLAND CEMENT LT-P1 | CAN | END | MAM ] SLAG [ BLAST FURNACE SLAG LT-UNK ] FLY ASH [ FLY ASH LT-UNK | ACCELERATING ADMIXTURE [ WATER (PRIMARY CASRN IS 7732-18-5) BM-4 THIOCYANATE SODIUM LT-P1 | EYE | MAM | SKI | AQU ] WATER REDUCING ADMIXTURE [ WATER (PRIMARY CASRN IS 7732-18-5) BM-4 ] 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 listinas.

VOC emissions: Inherently non-emitting source per LEED

## CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

O Yes

No

PREPARER: Self-Prepared VERIFIER: **VERIFICATION #:** 

SCREENING DATE: 2023-08-10 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	%: 80.7600				
PRODUCT THRESHOLD: 100	RESIDUALS AND IMPURITIES EVA Yes	LUATION COMI		ATERIAL TYPE: Geolo aterial	gically Derived
nd impurities are considered R/I) is the same as that applie nventory Threshold do not ne eviewed scientific articles. Fo urposes only and are not a g atabases for researching pot sted, then no residuals or imp	NOTES: Impurities listed above the three following the HPD Best Practice Guidan ed to intentionally added substances, i.e. ed to be reported on the HPD." This incl or this product, no actual material has be uarantee of presence in the actual buildi ential residuals and impurities. Any R/I a purities are common in that substance al ggregates are inert granular materials su tial ingredient in concrete.	ice, 10.02.17, ve , 100 ppm or 10 judes average d en tested. There ing material. Pha above the thresh bove the thresh	rsion 1 "The th 00 ppm. Resid ata declared in efore, residuals aros and PubC nold shall be lis old.	reshold applied to Res uals and impurities bel the common product and impurities are for hem (formerly TOXNET ted on the HPD; otherv	iduals and Impuriti ow the declared database or peer- informational ) are the main vise, if none are
LIMESTONE					ID: 1317-65
HAZARD DATA SOURCE: F	Pharos Chemical and Materials Library	F-3	HAZAR	D SCREENING DATE:	2023-08-10 0:46:3
%: <b>99.0000</b> Gre	enScreen: BM-3dg	RC: UNK	NANO: No	SUBSTANCE R	OLE: Filler
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found	V		No wa	rnings found on HPD F	Priority Hazard List
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	I	NOTIFICATION	l	
None found			No	o listings found on Add	itional Hazard Lists
limestone are examples) co	ENTIAL RESIDUAL: "Building materials, sontain crystalline silica in the form of qua rtz. (MSHA MSDS & Specialty MSDS) - F	rtz." (USGS Cry	stalline Silica P		
HAZARD DATA SOURCE: F	Pharos Chemical and Materials Library		HAZAR	D SCREENING DATE:	2023-08-10 0:46:
%: 0.1000 - 1.0000	GreenScreen: <b>BM-1</b>	RC: UNK	NANO: No	SUBSTANCE ROLE:	Impurity/Residual
		311			

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
МАМ	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	Olc.	No listings found on Additional Hazard Lists

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

# WATER

%: 7.0200

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-			
HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2023-08-10 0:46:33			
%: 100.0000	GreenScreen: BM-4	RC: UNK NAN	ANO: No SUBSTANCE ROLE: Diluent			
HAZARD TYPE	LIST NAME AND SOURCE	WARNIN	IINGS			
None found			No warnings found on HPD Priority Hazard Lists			
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFIC	FICATION			
EXEMPT	European Union / European (	Commission EU - RE	REACH Exemptions			
	(EU EC)	Exempte safety	Exempted from REACH Annex IV listing due to intrinsic safety			
SUBSTANCE NOTES: No	SUBSTANCE NOTES: No impurities are available for this substance Per Pharos database.					
PORTLAND CEMENT	%: 6.0800					
PRODUCT THRESHOLD: 100 ppm	0 RESIDUALS AND IMPURITIES E Yes	VALUATION COMPLETED	ED: 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)-Per Pharos database.						
		aft				
	0	13ft				

PORTLAND CEMENT					ID: 65997-15-1
HAZARD DATA SOURCE: P	naros Chemical and Materials Lib	orary	HAZARD	SCREENING DATE:	2023-08-10 0:46:34
%: 90.0000 - 95.0000	GreenScreen: LT-P1	RC: UNK	NANO: No	SUBSTANCE R	OLE: Binder
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
CAN	МАК		Carcinogen Grou but not sufficient		carcinogenic effects
END	TEDX - Potential Endocrine	e Disruptors	Potential Endocri	ne Disruptor	
МАМ	GHS - Japan	V C.	repeated exposu	amage to organs thr re [Specific target or repeated exposure	rgans/systemic
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
None found			No li	stings found on Add	ditional Hazard Lists
SUBSTANCE NOTES: Resid	uals or impurities are quantitativel	y measured and n	L.	en greater than or e	qual to 100 ppm.
SLAG	%: 3.6300				
PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES	S EVALUATION CO		TERIAL TYPE: Othe	er: Industrial by-

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." 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. 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:



		a 1a	ID: 65996-69-2
HAZARD DATA SOURCE: Ph	aros Chemical and Materials Library	HAZARD SO	CREENING DATE: 2023-08-10 0:46:35
%: <b>99.0000</b> Green	nScreen: LT-UNK RC: F	PreC NANO: No	SUBSTANCE ROLE: Filler
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS	
None found		No warning	gs found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION	
None found		No list	ings found on Additional Hazard Lists
	lended cement (during the cement productior p. of Transportation Federal Highway Adminis		siag to Portiano cement concrete as
FLY ASH	%: 2.4200		
FLY ASH PRODUCT THRESHOLD: 100 ppm	%: 2.4200 RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes	N MATERIAI product	_ TYPE: Other: Industrial Waste/ By-



FLY ASH				ID: 68131-74-8
HAZARD DATA SOUI	RCE: Pharos Chemical and Materials Libr	ary	HAZARD S	SCREENING DATE: 2023-08-10 0:46:35
%: <b>99.0000</b>	GreenScreen: LT-UNK	RC: PreC	NANO: No	SUBSTANCE ROLE: Filler
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found		63	No warnir	ngs found on HPD Priority Hazard Lists
ADDITIONAL LISTIN	NGS LIST NAME AND SOURCE	164	NOTIFICATION	
None found			No lis	tings found on Additional Hazard Lists

SUBSTANCE NOTES: Fly ash is 100% Pre consumer/Post Industrial recycled content, produced from the combustion of coal in electric utility or industrial boilers. Fly ash consists primarily of oxides of silicon, aluminum iron and calcium. Magnesium, potassium, sodium, titanium, and sulfur are also present to a lesser degree. When used as a mineral admixture in concrete, fly ash is classified as either Class C or Class F ash based on its chemical composition.



## ACCELERATING ADMIXTURE %: 0.0800

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 %.

WATER (PRIMARY CASRN IS 773	2-18-5)	c.3	e	ID: 652133-48-7
HAZARD DATA SOURCE: Pharos	Chemical and Materials Library		HAZARD	SCREENING DATE: 2023-08-10 0:46:35
%: <b>75.0000 - 80.0000</b>	GreenScreen: BM-4 RC	: UNK	NANO: No	SUBSTANCE ROLE: Diluent
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No warni	ngs found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
EXEMPT	European Union / European Commis (EU EC)	ssion	EU - REACH Exer	
		. 61	Exempted from R safety	EACH Annex IV listing due to intrinsic
SUBSTANCE NOTES: Percentage	es specified are typical and do not repr	resent a sp	pecification.	
THIOCYANATE SODIUM				ID: <b>540-72-7</b>
HAZARD DATA SOURCE: Pharos	Chemical and Materials Library		HAZARD S	CREENING DATE: 2023-09-27 10:30:05
%: 10.0000 - 25.0000	GreenScreen: LT-P1 RC	: UNK	NANO: No	SUBSTANCE ROLE: Accelerator
HAZARD TYPE	LIST NAME AND SOURCE	6.3	WARNINGS	
EYE	GHS - Australia			rious eye irritation [Serious eye tion - Category 2A]
МАМ	GHS - Japan		repeated exposur	amage to organs through prolonged or re [Specific target organs/systemic repeated exposure - Category 1]
SKI	GHS - New Zealand		Skin sensitisation	category 1
AQU	GHS - New Zealand		Hazardous to the category 2	aquatic environment - chronic
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found		1	No lis	stings found on Additional Hazard Lists
research, this is the best available	S, no substances listed as hazardous i e description of the substance present concrete admixtures; 17th edition chp# %: 0.0100	in the ma		
PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES EVAL	UATION C	OMPLETED: Yes	MATERIAL TYPE: Polymeric Material
	OY?	31		

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." 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.

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. 40 % Melamine 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:	Pharos Chemical and Materials Librar	у	HAZARD S	SCREENING DATE: 2	2023-08-10 0:46:36
%: 70.0000 - 75.0000	GreenScreen: BM-4	RC: UNK	NANO: No	SUBSTANCE ROL	LE: Diluent
HAZARD TYPE	LIST NAME AND SOURCE	2	WARNINGS		
None found	O		No warnir	ngs found on HPD Pri	iority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
EXEMPT	European Union / European C (EU EC)	ommission	EU - REACH Exem	nptions	
	()		Exempted from RE safety	EACH Annex IV listing	g due to intrinsic

SUBSTANCE NOTES: Per Pharos database, no residuals or impurities are registered for this substance.

# **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."

Drar

15%

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. CERTIFICATE URL: ISSUE DATE: 2023-08-05 00:00:00 EXPIRY DATE: CERTIFIER OR LAB: None

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.

oraft



### 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.

