Marmoleum Ohmex by Forbo Flooring Systems

Health Product Declaration v2.3

created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 97843928064

CLASSIFICATION: 09 65 00 Resilient Flooring

PRODUCT DESCRIPTION: Forbo Marmoleum Ohmex is a homogeneous floor covering made from natural ingredients including flax seed oil, rosin binders, wood flour, limestone and dry pigments which are mixed and then calendared onto a natural jute backing. Topshield is a high-performance finish. Its double UV cured double layer technology delivers extraordinary performance and clear and vibrant colors that remain over time. Topshield creates a 'ready to use' Marmoleum that requires no initial maintenance or polymer application. The surface can be repaired or refreshed in cases of accidents or after years of intensive use. Range of Resistance: $1 \times 10^{6} < R1 < 1 - 10^{8}$ ohms surface to ground; Gauge - $1/10^{\circ}$ (2.5 mm); Backing - Jute; Width - 79'' (2 meters); Length - 105' (32 meters); Roll Size - 77 square yards (64 square meters).

Section 1: Summary

CONTENT INVENTORY

- **Inventory Reporting Format**
- C Nested Materials Method
- Basic Method
- Threshold Disclosed Per
- C Material
- O Product
- Threshold Level
 100 ppm
 ⊙ 1,000 ppm
 Per GHS SDS

C Other

Partially Completed
 Not Completed

C Completed

Explanation(s) provided : • Yes O No

Residuals/Impurities Evaluation

Basic Method / Product Threshold

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

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.

PRODUCT | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE

MARMOLEUM OHMEX [LINSEED OIL NoGS WOOD FLOUR (HEMICELLULOSE) NoGS WOOD FLOUR (LIGNIN) NoGS LIMESTONE (CALCIUM CARBONATE) BM-3dg GUM ROSIN LT-P1 | SKI | MAM | AQU | REP | RES JUTE (PECTIN) LT-UNK JUTE (LIGNIN) NoGS JUTE (HEMICELLULOSE) NoGS RECYCLED FORBO LINOLEUM SCRAP NoGS CARBON BLACK PEARLS 120 BM-1 | CAN | EYE | MAM | PHY TITANIUM DIOXIDE BM-1 | CAN | END | MAM SODIUM CHLORIDE LT-UNK | EYE PEG-5 COCOMONIUM METHOSULFATE LT-P1 | MUL POLYESTER ACRYLATE LT-UNK URETHANE ACRYLATE NoGS]

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:

Percentage (%) ranges for ingredients are used as a means of keeping the exact formulations proprietary.

*Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. For this reason, this score is intentionally omitted from the "Contents highest concern" line above. See HPDC's Special Conditions policy for more information.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4.1 Option 1.

Third Party Verified?

O Yes ⊙ No PREPARER: Self-Prepared VERIFIER: VERIFICATION #: SCREENING DATE: 2024-06-06 PUBLISHED DATE: 2024-06-07 EXPIRY DATE: 2027-06-06 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

IARMOLEUM OHMEX					
RODUCT THRESHOLD: 1000 p	ppm RESIDUALS AN	ID IMPURITIES	EVALUATION COM	PLETED: No	
ESIDUALS AND IMPURITIES N	IOTES: No residuals or impurities are	expected to be	present in the produc	ct at or above the rep	porting threshold.
THER PRODUCT NOTES:					
LINSEED OIL					ID: 8001-26-1
HAZARD DATA SOURCE: Ph	aros Chemical and Materials Librar	у	HAZARD S	SCREENING DATE:	2024-06-06 9:27:59
%: 26.0000 - 30.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE R	OLE: Binder
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No war	nings found on HPD	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
None found			No	listings found on Ade	ditional Hazard Lists

SUBSTANCE NOTES:

HAZARD DATA SOURCE: P	haros Chemical and Materials Librar	у	HAZARD S	CREENING DATE:	2024-06-06 9:32:57
%: 0.0000 - 28.0000	GreenScreen: NoGS	RC: PreC	NANO: No	SUBSTANCE R	OLE: Filler
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No warn	ings found on HPD	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
None found			No I	listings found on Add	ditional Hazard Lists
SUBSTANCE NOTES: Wood	flour is a pre-consumer recycled bio-ba	ased waste prod	duct.		
VOOD FLOUR (LIGNIN)					

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2024-06-06 9:33:36

%: 0.0000 - 28.0000	GreenScreen: NoGS	RC: PreC	NANO: No	SUBSTANCE ROLE: Filler
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No warr	ings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists
SUBSTANCE NOTES: Wood	flour is a pre-consumer recycled bio-b	ased waste pro	duct.	

LIMESTONE (CALCIUM CARBONATE)

ID: 1317-65-3

AZARD DATA SOURCE: I	Pharos Chemical and Materials Librar	y	HAZARD S	SCREENING DATE: 2024-06-06 9:35:4
%: 17.0000 - 21.0000	GreenScreen: BM-3dg	RC: None	NANO: No	SUBSTANCE ROLE: Filler
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No warr	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

GUM ROSIN				ID: 8050-09-7
HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD S	CREENING DATE: 2024-06-06 9:29:17
%: 4.0000 - 8.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Binder

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
SKI	МАК	Sensitizing Substance Sh - Danger of skin sensitization
MAM	GHS - Japan	H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]
SKI	GHS - New Zealand	Skin sensitisation category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 2
REP	GHS - Japan	H361 - Suspected of damaging fertility or the unborn child [Toxic to reproduction - Category 2]
AQU	GHS - Japan	H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]
AQU	GHS - Japan	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
RES	GHS - Japan	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled [Respiratory sensitization - Category 1A]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES:

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD S	CREENING DATE: 2024-06-06 9:43:0
6: 0.0000 - 8.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Carrier
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No warr	ings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists
SUBSTANCE NOTES:				
UTE (LIGNIN)				ID: 9005-53- 2
AZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD S	CREENING DATE: 2024-06-06 9:42:44
6: 0.0000 - 8.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Carrier
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
				ings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS

LIST NAME AND SOURCE

NOTIFICATION

None found

No listings found on Additional Hazard Lists

ID: 8001-26-1

SUBSTANCE NOTES:

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD S	SCREENING DATE: 2024-06-06 9:42:29
%: 0.0000 - 8.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Carrier
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No war	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

RECYCLED FORBO LINOLEUM SCRAP

HAZARD DATA SOURCE: P	haros Chemical and Materials Librar	y	HAZARD S	SCREENING DATE: 2024-06-06 9:34:36
%: 0.0000 - 5.0000	GreenScreen: NoGS	RC: Both	NANO: No	SUBSTANCE ROLE: Filler
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No warr	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

SUBSTANCE NOTES: Scrap closed-loop recycled Marmoleum is used as an additional filler in the production of new Marmoleum. Sourced internally (pre-consumer) or globally (post-consumer from logistics, installation, and End Of Life*).

MAGNESIUM OXIDE				ID: 1309-48-4
HAZARD DATA SOURCE: PI	haros Chemical and Materials Libra	ary	HAZARD	SCREENING DATE: 2024-06-06 9:57:21
%: 0.0000 - 3.0000 ALT	GreenScreen: BM-3dg	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
CAN	МАК		Carcinogen Group risk under MAK/B	o 4 - Non-genotoxic carcinogen with low AT levels
МАМ	GHS - Japan		,	e respiratory irritation [Specific target ngle exposure - Category 3]

LIST NAME AND SOURCE

NOTIFICATION

No listings found on Additional Hazard Lists

SUBSTANCE NOTES: ALTERNATE: This substance is an alternate substance to Titanium dioxide.

ZINC OXIDE

ID: 1314-13-2

HAZARD DATA SOURCE:	Pharos Chemical and Materials Libra	ry	HAZARD	SCREENING DATE: 2024-06-06 9:57:4
%: 0.0000 - 3.0000 ALT	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
END	TEDX - Potential Endocrine Di	sruptors	Potential Endocrir	ne Disruptor
MUL	German FEA - Substances Ha Waters			Hazard to Waters
AQU	EU - GHS (H-Statements) Ann			to aquatic life [Hazardous to the aquatic te) - Category 1]
AQU	EU - GHS (H-Statements) Ann	ex 6 Table 3-1	-	to aquatic life with long lasting effects aquatic environment (chronic) -
МАМ	GHS - Japan			amage to organs [Specific target oxicity following single exposure -
AQU	GHS - New Zealand		Hazardous to the aquatic environment - acute category	
AQU	GHS - Japan		H400 - Very toxic environment (acut	to aquatic life [Hazardous to the aquatic te) - Category 1]
AQU	GHS - Japan		-	to aquatic life with long lasting effects aquatic environment (chronic) -
AQU	GHS - Australia			to aquatic life with long lasting effects aquatic environment (chronic) -
AQU	GHS - New Zealand		Hazardous to the	aquatic environment - chronic category 1
REP	GHS - Japan			d of damaging fertility or the unborn child ction - Category 2]

%: 0.0000 - 3.0000 ALT	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: F	Pigment
HAZARD DATA SOURCE:	Pharos Chemical and Materials Librar	у	HAZARD	SCREENING DATE: 2024	-06-06 9:56:59
BLACK PJ3013					ID: 1317-61-9
SUBSTANCE NOTES: ALT	ERNATE: This substance is an alternate	substance to Tit	anium dioxide.		
			Children's Product	ts	
RESTRICTED LIST	Cradle to Cradle Products Inno (C2CPII)	vation Institute	C2C Certified v4 F List (RSL) - Effecti	Product Standard Restricted ive July 1, 2022	d Substances
				vironmentally Released Ma	
	(C2CPII)		List (RSL) - Effect	ive July 1, 2022	
RESTRICTED LIST	Cradle to Cradle Products Inno	vation Institute		Product Standard Restricted	d Substances
			Antimicrobials		
RESTRICTED LIST	Green Science Policy Institute	(GSPI)	GSPI - Six Classe	s Precautionary List	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	МАК	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification**
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

**Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

SICOPLAST V BLUE 68-8	110			ID: 147-14-8
HAZARD DATA SOURCE:	Pharos Chemical and Materials Libra	ry	HAZARD	SCREENING DATE: 2024-06-06 9:56:33
%: 0.0000 - 3.0000 ALT	GreenScreen: BM-3	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No war	rnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
POSITIVE LIST	US Environmental Protection / EPA)	Agency (US	US EPA - DfE Sat	fer Chemicals Ingredients list (SCIL)
			Colorants - Green	Circle (Verified Low Concern)

BLUE PS 5.1-87				ID: 147-14-8
HAZARD DATA SOURCE: Ph	aros Chemical and Materials Libra	ary	HAZARD	SCREENING DATE: 2024-06-06 9:56:15
%: 0.0000 - 3.0000 ALT	GreenScreen: BM-3	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No war	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
POSITIVE LIST	US Environmental Protection	Agency (US	US EPA - DfE Sat	fer Chemicals Ingredients list (SCIL)
	EPA)		Colorants - Green	Circle (Verified Low Concern)

SUBSTANCE NOTES: ALTERNATE: This substance is an alternate substance to Carbon Black pearls 120.

BAYFERROX RED 130				ID: 1309-37-1
HAZARD DATA SOURCE: Pr	naros Chemical and Materials Library	/	HAZARD	SCREENING DATE: 2024-06-06 9:55:57
%: 0.0000 - 3.0000 ALT	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
CAN	МАК		Carcinogen Group but not sufficient f	o 3B - Evidence of carcinogenic effects or classification**
MAM	GHS - Japan		repeated exposure	Image to organs through prolonged or e [Specific target organs/systemic toxicity d exposure - Category 1]**
MAM	GHS - Japan			Image to organs [Specific target oxicity following single exposure -
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			Nc	listings found on Additional Hazard Lists

SUBSTANCE NOTES: ALTERNATE: This substance is an alternate substance to Carbon Black pearls 120.

**Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

IRGALITE RED K 4170 FP C2	0			ID: 7023-61-2
HAZARD DATA SOURCE: P	haros Chemical and Materials Lib	orary	HAZARD	SCREENING DATE: 2024-06-06 9:55:39
%: 0.0000 - 3.0000 ALT	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Pigment

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists
SUBSTANCE NOTES: ALTER	NATE: This substance is an alternate substance t	o Carbon Black pearls 120.
CROMOPHTAL RED K 3830 C	20	ID: 57971-99-0
HAZARD DATA SOURCE: Ph	aros Chemical and Materials Library	HAZARD SCREENING DATE: 2024-06-06 9:55:21
%: 0.0000 - 3.0000 ALT	GreenScreen: LT-UNK RC: Nor	e NANO: No SUBSTANCE ROLE: Pigment
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institu (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
RESTRICTED LIST		
		List (RSL) - Effective July 1, 2022 Core Restrictions
	(C2CPII)	List (RSL) - Effective July 1, 2022 Core Restrictions
SUBSTANCE NOTES: ALTER	(C2CPII)	List (RSL) - Effective July 1, 2022 Core Restrictions
	(C2CPII)	List (RSL) - Effective July 1, 2022 Core Restrictions
SUBSTANCE NOTES: ALTER	(C2CPII)	List (RSL) - Effective July 1, 2022 Core Restrictions
SUBSTANCE NOTES: ALTER	(C2CPII)	List (RSL) - Effective July 1, 2022 Core Restrictions O Carbon Black pearls 120. ID: 2786-76-7 HAZARD SCREENING DATE: 2024-06-06 9:55:02
SUBSTANCE NOTES: ALTER RED 147008-C20 HAZARD DATA SOURCE: Ph	(C2CPII) RNATE: This substance is an alternate substance t aros Chemical and Materials Library	List (RSL) - Effective July 1, 2022 Core Restrictions O Carbon Black pearls 120. ID: 2786-76-7 HAZARD SCREENING DATE: 2024-06-06 9:55:02
SUBSTANCE NOTES: ALTER RED 147008-C20 HAZARD DATA SOURCE: Ph %: 0.0000 - 3.0000 ALT	(C2CPII) RNATE: This substance is an alternate substance to aros Chemical and Materials Library GreenScreen: LT-UNK RC: Nor	List (RSL) - Effective July 1, 2022 Core Restrictions o Carbon Black pearls 120. ID: 2786-76-7 HAZARD SCREENING DATE: 2024-06-06 9:55:02 e NANO: No SUBSTANCE ROLE: Pigment
SUBSTANCE NOTES: ALTER RED 147008-C20 HAZARD DATA SOURCE: Ph %: 0.0000 - 3.0000 ALT HAZARD TYPE	(C2CPII) RNATE: This substance is an alternate substance to aros Chemical and Materials Library GreenScreen: LT-UNK RC: Nor	List (RSL) - Effective July 1, 2022 Core Restrictions o Carbon Black pearls 120. ID: 2786-76-7 HAZARD SCREENING DATE: 2024-06-06 9:55:02 e NANO: No SUBSTANCE ROLE: Pigment WARNINGS
SUBSTANCE NOTES: ALTER RED 147008-C20 HAZARD DATA SOURCE: %: 0.0000 - 3.0000 ALT HAZARD TYPE None found	(C2CPII) RNATE: This substance is an alternate substance to a substance is an alternate substance to a substanc	List (RSL) - Effective July 1, 2022 Core Restrictions o Carbon Black pearls 120. ID: 2786-76-7 HAZARD SCREENING DATE: 2024-06-06 9:55:02 e NANO: No SUBSTANCE ROLE: Pigment WARNINGS No warnings found on HPD Priority Hazard Lists
SUBSTANCE NOTES: ALTER RED 147008-C20 HAZARD DATA SOURCE: Ph %: 0.0000 - 3.0000 ALT HAZARD TYPE None found ADDITIONAL LISTINGS None found	(C2CPII) RNATE: This substance is an alternate substance to a substance is an alternate substance to a substanc	List (RSL) - Effective July 1, 2022 Core Restrictions D Carbon Black pearls 120. ID: 2786-76-7 HAZARD SCREENING DATE: 2024-06-06 9:55:02 MANO: No SUBSTANCE ROLE: Pigment WARNINGS No warnings found on HPD Priority Hazard Lists NOTIFICATION No listings found on Additional Hazard Lists
SUBSTANCE NOTES: ALTER RED 147008-C20 HAZARD DATA SOURCE: Ph %: 0.0000 - 3.0000 ALT HAZARD TYPE None found ADDITIONAL LISTINGS None found	(C2CPII) RNATE: This substance is an alternate substance to a substance is an alternate substance to a substanc	List (RSL) - Effective July 1, 2022 Core Restrictions D Carbon Black pearls 120. ID: 2786-76-7 HAZARD SCREENING DATE: 2024-06-06 9:55:02 MANO: No SUBSTANCE ROLE: Pigment WARNINGS No warnings found on HPD Priority Hazard Lists NOTIFICATION No listings found on Additional Hazard Lists
SUBSTANCE NOTES: ALTER RED 147008-C20 HAZARD DATA SOURCE: Ph %: 0.0000 - 3.0000 ALT HAZARD TYPE None found ADDITIONAL LISTINGS None found	(C2CPII) RNATE: This substance is an alternate substance to a substance is an alternate substance to a substanc	List (RSL) - Effective July 1, 2022 Core Restrictions D Carbon Black pearls 120. ID: 2786-76-7 HAZARD SCREENING DATE: 2024-06-06 9:55:02 MANO: No SUBSTANCE ROLE: Pigment WARNINGS No warnings found on HPD Priority Hazard Lists NOTIFICATION No listings found on Additional Hazard Lists
SUBSTANCE NOTES: ALTER RED 147008-C20 HAZARD DATA SOURCE: Ph %: 0.0000 - 3.0000 ALT HAZARD TYPE None found ADDITIONAL LISTINGS None found	(C2CPII) RNATE: This substance is an alternate substance to a substance is an alternate substance to a substance to a substance is an alternate substance to a substance is an alternate substance to a substance to a substance is an alternate substance to a subst	List (RSL) - Effective July 1, 2022 Core Restrictions D Carbon Black pearls 120. ID: 2786-76-7 HAZARD SCREENING DATE: 2024-06-06 9:55:02 MANO: No SUBSTANCE ROLE: Pigment WARNINGS No warnings found on HPD Priority Hazard Lists NOTIFICATION No listings found on Additional Hazard Lists
SUBSTANCE NOTES: ALTER RED 147008-C20 HAZARD DATA SOURCE: HAZARD TYPE None found ADDITIONAL LISTINGS None found SUBSTANCE NOTES: ALTER OMNICOLOR-ORANGE DW23	(C2CPII) RNATE: This substance is an alternate substance to a substance is an alternate substance to a substance to a substance is an alternate substance to a substance is an alternate substance to a substance to a substance is an alternate substance to a subst	List (RSL) - Effective July 1, 2022 Core Restrictions D Carbon Black pearls 120. ID: 2786-76-7 HAZARD SCREENING DATE: 2024-06-06 9:55:02 MANO: NO SUBSTANCE ROLE: Pigment WARNINGS No warnings found on HPD Priority Hazard Lists NOTIFICATION No listings found on Additional Hazard Lists O Carbon Black pearls 120.

RESTRICTED LIST Cra	ST NAME AND SOURCE radle to Cradle Products Innovation Institute 2CPII)	NOTIFICATION C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
ADDITIONAL LISTINGS LIS	ST NAME AND SOURCE	NOTIFICATION
	erman FEA - Substances Hazardous to aters	Class 2 - Hazard to Waters

IOX YELLOW 02

ID: 51274-00-1

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2024-06-06 9:54:		
%: 0.0000 - 3.0000 ALT	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Pigment	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No war	nings found on HPD Priority Hazard Lists	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
None found			No	listings found on Additional Hazard Lists	

SUBSTANCE NOTES: ALTERNATE: This substance is an alternate substance to Carbon Black pearls 120. **Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

YELLOW PS 2.1-26					ID: 5567-15-7
HAZARD DATA SOURCE: Ph	aros Chemical and Materials Libra	ary	HAZARD	SCREENING DATE:	2024-06-06 9:53:56
%: 0.0000 - 3.0000 ALT	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE RC	DLE: Pigment
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
EYE	GHS - New Zealand		Eye irritation cate	gory 2	
AQU	GHS - New Zealand		Hazardous to the	aquatic environment	- chronic category 3
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
RESTRICTED LIST	Cradle to Cradle Products Inn (C2CPII)	ovation Institute	C2C Certified v4 F List (RSL) - Effect	Product Standard Res ive July 1, 2022	stricted Substances
			Core Restrictions		

SUBSTANCE NOTES: ALTERNATE: This substance is an alternate substance to Carbon Black pearls 120.

YELLOW 132026				ID: 77804-81-0
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	/	HAZARD	SCREENING DATE: 2024-06-06 9:53:33
%: 0.0000 - 3.0000 ALT	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No war	rnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	b listings found on Additional Hazard Lists

CARBON BLACK PEARLS 120

ID: 1333-86-4

HAZARD DATA SOURCE: P	haros Chemical and Materials Lib	rary	HAZARD	SCREENING DATE: 2024-06-06 9:53:1	
%: 0.0000 - 3.0000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Pigment	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
CAN	US CDC - Occupational Car	cinogens	Occupational Card	cinogen**	
CAN	МАК	МАК		Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification**	
CAN	CA EPA - Prop 65	CA EPA - Prop 65		cific to chemical form or exposure route**	
CAN	IARC	IARC		Group 2b - Possibly carcinogenic to humans**	
EYE	GHS - New Zealand	GHS - New Zealand		Eye irritation category 2**	
CAN	GHS - New Zealand		Carcinogenicity ca	ategory 2**	
CAN	GHS - Japan		H351 - Suspected Category 2]**	of causing cancer [Carcinogenicity -	
MAM	GHS - Japan		repeated exposure	mage to organs through prolonged or e [Specific target organs/systemic toxicity exposure - Category 1]**	
РНҮ	GHS - Japan			ng;; may catch fire [Self-heating nixtures - Category 1]**	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
None found			No	listings found on Additional Hazard Lists	

SUBSTANCE NOTES: **Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2024-06-06 9:46:12

%: 0.0000 - 3.0000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
CAN	US CDC - Occupational Carcino	gens	Occupational Carc	inogen**
CAN	CA EPA - Prop 65		Carcinogen - speci	ific to chemical form or exposure route**
CAN	IARC		Group 2B - Possibl from occupational s	ly carcinogenic to humans - inhaled sources**
CAN	МАК		• I	3A - Evidence of carcinogenic effects establish MAK/BAT value**
END	TEDX - Potential Endocrine Disru	uptors	Potential Endocrine	e Disruptor**
CAN	МАК		Carcinogen Group risk under MAK/BA	4 - Non-genotoxic carcinogen with low
CAN	IARC		Group 2b - Possibl	ly carcinogenic to humans**
CAN	EU - GHS (H-Statements) Annex	6 Table 3-1	H351 - Suspected Category 2]**	of causing cancer [Carcinogenicity -
CAN	GHS - Japan		H351 - Suspected Category 2]**	of causing cancer [Carcinogenicity -
МАМ	GHS - Japan		repeated exposure	mage to organs through prolonged or [Specific target organs/systemic toxicity exposure - Category 1]**
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Cradle to Cradle Products Innova (C2CPII)	ation Institute	C2C Certified v4 P List (RSL) - Effectiv	roduct Standard Restricted Substances ve July 1, 2022
			Children's Products	S
RESTRICTED LIST	Cradle to Cradle Products Innova (C2CPII)	ation Institute	C2C Certified v4 P List (RSL) - Effectiv	roduct Standard Restricted Substances ve July 1, 2022
			Formulated Consu	mer Products
RESTRICTED LIST	Cradle to Cradle Products Innova (C2CPII)	ation Institute	C2C Certified v4 P List (RSL) - Effectiv	roduct Standard Restricted Substances ve July 1, 2022
			Cosmetics & Perso	onal Care Products
POSITIVE LIST	US Environmental Protection Age EPA)	ency (US		er Chemicals Ingredients list (SCIL) Circle (Verified Low Concern)

SUBSTANCE NOTES: **Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

SODIUM CHLORIDE				ID: 7647-14-5
HAZARD DATA SOURCE: P	haros Chemical and Materials Lib	orary	HAZARD	SCREENING DATE: 2024-06-06 9:41:53
%: 0.0000 - 3.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Anti-static

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
EYE	GHS - New Zealand	Eye irritation category 2
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES:

PEG-5 COCOMONIUM METHOSULFATE

ID: 68989-03-7

	Pharos Chemical and Materials Li	brary	HAZARD SCREENING DATE: 2024-06-06 9:41:29		
%: 0.0000 - 3.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Anti-static	
HAZARD TYPE	LIST NAME AND SOURCE	Ē	WARNINGS		
MUL	German FEA - Substances Waters	Hazardous to	Class 3 - Severe	Hazard to Waters	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	Ξ	NOTIFICATION		
RESTRICTED LIST	Green Science Policy Instit	cute (GSPI)	GSPI - Six Classe	es Precautionary List	
			Antimicrobials		

SUBSTANCE NOTES:

POLYESTER ACRYLATE			ID: 73378-73-1	
HAZARD DATA SOURCE:	Pharos Chemical and Materials Librar	у	HAZARD S	SCREENING DATE: 2024-06-06 9:44:59
%: 0.0000 - 0.5000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Carrier
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No war	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

SUBSTANCE NOTES:

URETHANE ACRYLATE				ID: 68987-79-1
HAZARD DATA SOURCE: P	Pharos Chemical and Materials Li	brary	HAZARD S	SCREENING DATE: 2024-06-06 9:44:35
%: 0.0000 - 0.5000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Coating

None found		No listings found on Additional Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No warnings found on HPD Priority Hazard Lists
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS

SUBSTANCE NOTES:

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

CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All CERTIFICATE URL: ISSUE DATE: 2024-05-17 00:00:00 EXPIRY DATE: 2027-05-17 00:00:00 CERTIFIER OR LAB: Berkeley Analyical

CERTIFICATION AND COMPLIANCE NOTES:

😑 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.

FORBO 615 EUROSTAR LINO EC ADHESIVE

MANUFACTURER (OR GENERIC): Forbo Flooring Systems

HPD URL: No HPD Available

ACCESSORY TYPE: Adhesive

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Forbo 615 Eurostar Lino EC is the standard recommended adhesive for Marmoleum Ohmex ESD installations. Refer to Forbo's Sustain 1195 Technical Data Sheet for full installation recommendations and requirements.

FORBO SUSTAIN 1195 ADHESIVE

MANUFACTURER (OR GENERIC): Forbo Flooring Systems

HPD URL: No HPD Available

ACCESSORY TYPE: Adhesive

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Forbo Sustain 1195 can be used as an alternate adhesive for non-ESD Marmoleum Ohmex installations. Refer to Forbo's Sustain 1195 Technical Data Sheet for full installation recommendations and requirements.

FORBO SUSTAIN 100 ADHESIVE

MANUFACTURER (OR GENERIC): Forbo Flooring Systems

HPD URL: No HPD Available

ACCESSORY TYPE: Adhesive

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Forbo Sustain 100 can be used as an alternate adhesive for non-ESD Marmoleum Ohmex installations. Refer to Forbo's Sustain 100 Technical Data Sheet for full installation recommendations and requirements.

FORBO L 885 ADHESIVE

MANUFACTURER (OR GENERIC): Forbo Flooring Systems

HPD URL: No HPD Available

ACCESSORY TYPE: Adhesive

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Forbo L 885 can be used as an alternate adhesive for non-ESD Marmoleum Ohmex installations. Refer to Forbo's L 885 Technical Data Sheet for full installation recommendations and requirements.

FORBO 660 ADHESIVE

MANUFACTURER (OR GENERIC): Forbo Flooring Systems

HPD URL: No HPD Available

ACCESSORY TYPE: Adhesive

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Forbo 660 adhesive can be used as an alternate adhesive for non-ESD Marmoleum Ohmex installations. Refer to Forbo's 660 adhesive Technical Data Sheet for full installation recommendations and requirements.

FORBO ARMORCOVE MANUFACTURER (OR GENERIC): Forbo Flooring Systems

HPD URL: No HPD Available

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Forbo ArmorCove is the recommended coving system for use with Forbo Marmoleum products. It is a fully integrated coving system that is comprised of a 1-piece aluminum cove-former, full vertical backing and cap, with Marmoleum as the finished surface. It is puncture-proof and water resistant. Refer to Forbo's ArmorCove Technical Data Sheet for full installation recommendations and requirements.

FORBO MARMOWELD ETU

MANUFACTURER (OR GENERIC): Forbo Flooring Systems

HPD URL: No HPD Available

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Marmoweld ETU is the preferred method of welding seams where seamless or monolithic flooring is required. Marmoweld ETU is a color matching paste weld which can also be used to make minor repairs in Forbo Marmoleum products. Refer to Forbo's Marmoweld ETU Technical Data Sheet for full installation recommendations and requirements.

FORBO ADHESIVE REMOVER

MANUFACTURER (OR GENERIC): Forbo Flooring Systems

HPD URL: No HPD Available

ACCESSORY TYPE: Cleaning Product CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Forbo Adhesive Remover is a recommended cleaning product for use with Forbo Marmoleum Ohmex.

FORBO NEUTRAL PH CLEANER

MANUFACTURER (OR GENERIC): Forbo Flooring Systems

HPD URL: No HPD Available

ACCESSORY TYPE: Cleaning Product

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Forbo Neutral pH Cleaner is a recommended cleaning product for use with Forbo Marmoleum Ohmex.

Section 5: General Notes

Marmoleum Ohmex is only available in select colors. Marmoleum Ohmex meets the following surface to ground ranges when tested in accordance to ASTM F 150, NFPA 99, and/or EOS/ESD S7.1: $1 \times 10^{6} < R1 < 1 - 10^{8}$ ohms surface to ground. Marmoleum Ohmex contains no Isocyanates.

MANUFACTURER INFORMATION

MANUFACTURER: Forbo Flooring Systems ADDRESS: 8 Maplewood Drive Hazleton, PA 18202 COUNTRY: United States WEBSITE: www.forboflooringNA.com CONTACT NAME: Jeff Miller TITLE: Sustainability & Documentation Administrator PHONE: 570-450-0319 EMAIL: jeff.miller@forbo.com

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 contentPostC Post-consumer recycled contentUNK Inclusion of recycled content is unknownNone 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 TranslatorTM, 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

Marmoleum Ohmex

for compliance with the HPD standard noted.