Health Product Declaration v2.3

created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 1372288230400 CLASSIFICATION: 09 65 16.23 Vinyl Sheet Flooring

PRODUCT TYPE: Static-Control, Vinyl Sheet Floor Covering (Resilient)

PRODUCT DESCRIPTION: Forbo Sphera SD | EC is a homogeneous conductive vinyl sheet floorcovering that is made of low emitting, 100% phthalate free materials. It has a uniquely embossed SMART-top surface, which provides a high resistance to chemicals, scratches and stains. Conductive polymer granules are added to the PVC mix to make the conductive chips in the material.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

Nested Materials Method

Basic Method

Threshold Disclosed Per

Material

Product

Threshold Level

C 100 ppm

C Per GHS SDS

Other

Residuals/Impurities Evaluation

Completed

C Partially Completed

Not Completed

Explanation(s) provided:

For all contents above the threshold, the manufacturer has:

Characterized

⊙ Yes ○ No

Yes ○ No

Provided weight and role.

Screened

Provided screening results using HPDC-approved

methods.

Identified Yes ○ 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.

PRODUCT | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY

GREENSCREEN SCORE | HAZARD TYPE

SPHERA SD | EC [PVC (POLYVINYL CHLORIDE) LT-P1 | MAM CHALK (CALCIUM CARBONATE) BM-3 | EYE PLASTICIZER OILS, DOTP (BIS(2-ETHYLHEXYL) TEREPHTHALATE) BM-3dg CONDUCTIVE CHIPS (TITANIUM DIOXIDE) BM-1 * | CAN | END | MAM PROPRIETARY MIXTURES & LUBRICANTS (FATTY ACIDS, C14-22, 2-ETHYLHEXYL ESTERS, EPOXIDIZED) NoGS BARIUM SULFATE BM-2 | CAN | MAM **ACRYLATED ALIPHATIC URETHANE NoGS POLYURETHANE LACQUER NoGS CONDUCTIVE COATING (WATER) BM-4** CONDUCTIVE COATING (CARBON BLACK) BM-1 * | CAN | EYE | MAM | PHY CONDUCTIVE COATING (PROPYLENE GLYCOL) BM-2 | END | MAM]

Number of Greenscreen BM-4/BM3 contents ... 5

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.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: ClearChem Standard BkA-CC-01.3

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

Classroom & Office scenario

LCA: Environmental Product Declaration (EPD) by UL

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4.1 Option 1.

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2024-07-16 PUBLISHED DATE: 2024-07-18 EXPIRY DATE: 2027-07-16

Section 2: Content in Descending Order of Quantity

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

SPHERA SD | EC

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are expected to be present in the product at or above the reporting threshold.

OTHER PRODUCT NOTES:

PVC (POLYVINYL CHLORIDE) ID: 9002-86-2

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2024-07-17 12:16:03		
%: 40.0000 - 44.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Binder
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MAM	GHS - Japan			respiratory irritation [Specific target agle exposure - Category 3]
MAM	GHS - Japan		repeated exposure	mage to organs through prolonged or e [Specific target organs/systemic toxicity exposure - Category 1]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Perkins+Will (P+W)		P&W - Precaution	ary List
			Precautionary list avoidance	of substances recommended for
RESTRICTED LIST	Cradle to Cradle Products Inno (C2CPII)	vation Institute		Product Standard Restricted RSL) - Effective July 1, 2022
			Core Restrictions	
RESTRICTED LIST	International Living Future Insti	itute (ILFI)	Living Building Ch Chemicals - Effect	allenge 4.0 - Red List of Materials & ive April 1, 2024
			Red List substance V4.0 projects	es to avoid in Living Building Challenge

SUBSTANCE NOTES:

CHALK (CALCIUM CARBONATE)

ID: **471-34-1**

HAZARD DATA SOURCE:	Pharos Chemical and Materials Libr	ary	HAZARD SO	CREENING DATE: 2024-07-17 12:30:13
%: 30.0000 - 35.0000	GreenScreen: BM-3	RC: None	NANO: No	SUBSTANCE ROLE: Filler

Sphera SD | EC

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:		

PLASTICIZER OILS, DOTP (BIS(2-ETHYLHEXYL) TEREPHTHALATE)

ID: **6422-86-2**

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2024-07-17 12:19:	
%: 17.0000 - 21.0000	GreenScreen: BM-3dg	RC: None	NANO: No	SUBSTANCE ROLE: Softener
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	
RESTRICTED LIST	Green Science Policy Institute	e (GSPI)	GSPI - Six Classes	Precautionary List
			Some Solvents	
SUBSTANCE NOTES:				

CONDUCTIVE CHIPS (TITANIUM DIOXIDE)

ID: **13463-67-7**

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2024-07-17 12:22:42		
%: 0.0000 - 10.0000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Conductor

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	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources**
CAN	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value**
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor**
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels**
CAN	IARC	Group 2b - Possibly carcinogenic to humans**
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]**
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Formulated Consumer Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Cosmetics & Personal Care Products
POSITIVE LIST	US Environmental Protection Agency (US EPA)	US EPA - DfE Safer Chemicals Ingredients list (SCIL) Colorants - Green 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.

CONDUCTIVE CHIPS (RED) ID: 5280-78-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2024-07-17 12:23:45
%: 0.0000 - 10.0000 ALT GreenScreen: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Conductor

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
CURCTANCE NOTES: ALTER	RNATE: This substance is an alternate substa	and the Country time Obine (Titaning districts)

CONDUCTIVE CHIPS (YELLOW) ID: 51274-00-1					
HAZARD DATA SOURCE: Phar	os Chemical and Materials Library	/	HAZARD S	SCREENING DATE: 2024-07-17 12:24:26	
%: 0.0000 - 10.0000 ALT	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Conductor	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No wa	rnings found on HPD Priority Hazard Lists	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
None found			N	o listings found on Additional Hazard Lists	

SUBSTANCE NOTES: ALTERNATE: This substance is an alternate substance to Conductive Chips (Titanium dioxide).

SUBSTANCE NOTES: ALTERNATE: This substance is an alternate substance to Conductive Chips (Titanium dioxide).

CONDUCTIVE CHIPS (BLU	E)		ID: 147-14-8	
HAZARD DATA SOURCE:	Pharos Chemical and Materials Librar	у	HAZARD S	SCREENING DATE: 2024-07-17 12:24:59
%: 0.0000 - 10.0000 ALT	GreenScreen: BM-3	RC: None	NANO: No	SUBSTANCE ROLE: Conductor
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	rnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
POSITIVE LIST	US Environmental Protection A	gency (US	US EPA - DfE Sa	afer Chemicals Ingredients list (SCIL)
	Li Aj		Colorants - Green	n Circle (Verified Low Concern)

CONDUCTIVE CHIPS (CARBON BLACK)

ID: 1333-86-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2024-07-17 12:25:34		
%: 0.0000 - 10.0000 ALT	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Conductor	

^{**}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.

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen**
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification**
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route**
CAN	IARC	Group 2b - Possibly carcinogenic to humans**
EYE	GHS - New Zealand	Eye irritation category 2**
CAN	GHS - New Zealand	Carcinogenicity category 2**
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]**
PHY	GHS - Japan	H251 - Self-heating;; may catch fire [Self-heating substances and mixtures - Category 1]**
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 Conductive Chips (Titanium dioxide).

PROPRIETARY MIXTURES & LUBRICANTS (FATTY ACIDS, C14-22, 2-ETHYLHEXYL ESTERS, EPOXIDIZED)

ID: 95370-96-0

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	у	HAZARD S	CREENING DATE: 2024-07-17 12:21:47
%: 2.5000 - 3.5000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer
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
SUBSTANCE NOTES:				

SILICIC ACID, ALUMINUM SODIUM SALT, SULFURIZED

ID: 101357-30-6

HAZARD DATA SOURCE:	OURCE: Pharos Chemical and Materials Library			REENING DATE: 2024-07-17 12:27:23
%: 0.0000 - 1.5000 ALT	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Pigment

^{**}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.

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 Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products

PIGMENT BLUE 15				ID: 147-14-8
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	,	HAZARD S	CREENING DATE: 2024-07-17 12:28:59
%: 0.0000 - 1.5000 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 Ag	gency (US	US EPA - DfE Saf	fer Chemicals Ingredients list (SCIL)
	,		Colorants - Green	Circle (Verified Low Concern)

SUBSTANCE NOTES: ALTERNATE: This substance is an alternate substance to Barium sulfate.

TITANIUM DIOXIDE				ID: 13463-67-7
HAZARD DATA SOURCE: Pha	aros Chemical and Materials Lib	orary	HAZARD S	CREENING DATE: 2024-07-17 12:28:39
%: 0.0000 - 1.5000 ALT	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Pigment

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	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources**
CAN	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value**
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor**
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels**
CAN	IARC	Group 2b - Possibly carcinogenic to humans**
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**
МАМ	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]**
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Formulated Consumer Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Cosmetics & Personal Care Products
POSITIVE LIST	US Environmental Protection Agency (US EPA)	US EPA - DfE Safer Chemicals Ingredients list (SCIL) Colorants - Green Circle (Verified Low Concern)

CARBON BLACK ID: 1333-86-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2024-07-17 12:28:20
%: 0.0000 - 1.5000 ALT GreenScreen: BM-1 RC: None NANO: No SUBSTANCE ROLE: Pigment

^{**}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.

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen**
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification**
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route**
CAN	IARC	Group 2b - Possibly carcinogenic to humans**
EYE	GHS - New Zealand	Eye irritation category 2**
CAN	GHS - New Zealand	Carcinogenicity category 2**
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]**
PHY	GHS - Japan	H251 - Self-heating;; may catch fire [Self-heating substances and mixtures - Category 1]**
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

FERRIC OXIDE ID: 1309-37-1

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	/	HAZARD S	CREENING DATE: 2024-07-17 12:27:59
%: 0.0000 - 1.5000 ALT	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
CAN	MAK		Carcinogen Group 3B - Evidence of carcinogenic effective but not sufficient for classification**	
MAM	GHS - Japan		H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxi following repeated exposure - Category 1]**	
MAM	GHS - Japan			amage to organs [Specific target oxicity following single exposure -
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.

**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.

DICHROMIUM TRIOXIDE					ID: 1308-38-9	
HAZARD DATA SOURCE: PI	HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD S	CREENING DATE:	2024-07-17 12:27:41	
%: 0.0000 - 1.5000 ALT	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE R	COLE: Pigment	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS			
SKI	MAK	MAK		ance Sh - Danger of	skin sensitization	
МАМ	GHS - Japan	GHS - Japan		H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION			
RESTRICTED LIST	Cradle to Cradle Products Inn (C2CPII)	ovation Institute		Product Standard F RSL) - Effective July		
			Biological and En	vironmentally Releas	sed Materials	
RESTRICTED LIST	Cradle to Cradle Products Inn (C2CPII)	ovation Institute		Product Standard F RSL) - Effective July		
			Children's Produc	ts		

SUBSTANCE NOTES: ALTERNATE: This substance is an alternate substance to Barium sulfate.

PIGMENT YELLOW 180				ID: 85497-06-9
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD S	CREENING DATE: 2024-07-17 12:27:00
%: 0.0000 - 1.5000 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	listings found on Additional Hazard Lists
SUBSTANCE NOTES: AL	TERNATE: This substance is an alternate s	substance to B	arium sulfate.	

CHROME RUTILE YELLOW ID: 68186-90-3

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2024-07-17 12:26:39		
%: 0.0000 - 1.5000 ALT	GreenScreen: BM-1	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	
RESTRICTED LIST	Cradle to Cradle Products Inno (C2CPII)	vation Institute	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022	
			Biological and Env	rironmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Inno (C2CPII)	Cradle to Cradle Products Innovation Institute (C2CPII)		Product Standard Restricted RSL) - Effective July 1, 2022
			Children's Product	S
RESTRICTED LIST	Cradle to Cradle Products Inno (C2CPII)	vation Institute		Product Standard Restricted RSL) - Effective July 1, 2022
			Cosmetics & Person	onal Care Products

BARIUM SULFATE	ID: 7727-43-7
HAZARD DATA SOURCE: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2024-07-17 12:26:14

%: 0.0000 - 1.5000	GreenScreen: BM-2	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
CAN	MAK	MAK		4 - Non-genotoxic carcinogen with low AT levels
MAM	GHS - Japan	an		mage to organs through prolonged or ESpecific target organs/systemic toxicity exposure - Category 1]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	:	NOTIFICATION	
RESTRICTED LIST	Cradle to Cradle Products I (C2CPII)	nnovation Institute	e C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022	
			Biological and Env	rironmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products I (C2CPII)	nnovation Institute	te C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022	
			Children's Product	s
RESTRICTED LIST	Cradle to Cradle Products I (C2CPII)	nnovation Institute		Product Standard Restricted RSL) - Effective July 1, 2022
			Cosmetics & Person	onal Care Products

SUBSTANCE NOTES:

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD S	CREENING DATE: 2024-07-17 12:31:40
%: 0.0000 - 0.5000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Coating
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:				

POLYURETHANE LACQU	ER			ID: 52404-33-8
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD S	CREENING DATE: 2024-07-17 12:32:15
%: 0.0000 - 0.5000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Coating
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:				

HAZARD DATA SOURCE: P	haros Chemical and Materials Libra	у	HAZARD S	CREENING DATE: 2024-07-17 12:32:5
%: 0.0000 - 0.5000	GreenScreen: BM-4	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	
EXEMPT	European Union / European Co	ommission (EU	EU - REACH Exemptions	
	- /		Exempted from RE safety	EACH Annex IV listing due to intrinsic

CONDUCTIVE COATING (CARBON BLACK)

ID: 1333-86-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2024-07-17 12:33:26

%: 0.0000 - 0.5000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Carrier	
HAZARD TYPE	LIST NAME AND SOURCE	LIST NAME AND SOURCE		WARNINGS	
CAN	US CDC - Occupational Ca	US CDC - Occupational Carcinogens		Occupational Carcinogen**	
CAN	MAK	MAK		Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification**	
CAN	CA EPA - Prop 65	CA EPA - Prop 65 Carcinogen - specific to chemical form or ex		ific 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	GHS - New Zealand		Carcinogenicity category 2**	
CAN	GHS - Japan	GHS - Japan		H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**	
MAM	GHS - Japan		H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]**		
PHY	GHS - Japan	GHS - Japan		H251 - Self-heating;; may catch fire [Self-heating substances and mixtures - 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.

CONDUCTIVE COATING (PROPYLENE GLYCOL)

ID: **57-55-6**

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2024-07-17 12:34:11	
%: 0.0000 - 0.5000	GreenScreen: BM-2	RC: None	NANO: No	SUBSTANCE ROLE: Carrier
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
END	TEDX - Potential Endocrine Disruptors		Potential Endocrine Disruptor	
MAM	GHS - Japan		H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]	
MAM	GHS - Japan		H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]	

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List
		Antimicrobials
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List
		Some Solvents
POSITIVE LIST	US Environmental Protection Agency (US EPA)	US EPA - DfE Safer Chemicals Ingredients list (SCIL)
	,	Enzymes and Stabilizers - Green Circle (Verified Low Concern)

SUBSTANCE NOTES:

Section 3: Certifications and Compliance

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	ClearChem Standard BkA-CC-01.3	
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: Classroom and Office CERTIFICATE URL:	ISSUE DATE: 2024-06-20 00:00:00 EXPIRY DATE: 2027-05-17 00:00:00	CERTIFIER OR LAB: Berkeley Analytical
CERTIFICATION AND COMPLIANCE NOTES:		
VOC EMISSIONS	CDPH Standard Method V1.2 (Section 013	50/CHPS) - Classroom & Office scenario
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Classroom and Office CERTIFICATE URL:	ISSUE DATE: 2024-05-17 00:00:00 EXPIRY DATE: 2027-05-17 00:00:00	CERTIFIER OR LAB: Berkeley Analytical
CERTIFICATION AND COMPLIANCE NOTES:		
LCA	Environmental Product Declaration (EPD) by UL	
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All CERTIFICATE URL:	ISSUE DATE: 2024-06-21 00:00:00 EXPIRY DATE: 2029-06-21 00:00:00	CERTIFIER OR LAB: UL Environment

Section 4: Accessories

CERTIFICATION AND COMPLIANCE NOTES:

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 C 930 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 C 930 is the standard recommended adhesive for installation of the copper grounding strap for conductive Sphera SD | EC installations. Refer to Forbo's C 930 Technical Data Sheet for full installation recommendations and requirements.

FORBO FST 1299 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 FST 1299 is the standard recommended adhesive for conductive Sphera SD | EC installations. Note: Forbo C 930 is to be used for installation of the copper grounding strap. Forbo FST 1299 is to be used for the remainder of the installation. Refer to Forbo's FST 1299 Technical Data Sheet for full installation recommendations and requirements.

COPPER GROUNDING STRAP

MANUFACTURER (OR GENERIC): Forbo Flooring Systems

HPD URL: No HPD Available

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: A copper grounding strap is required in conjunction with the Forbo C 930 Adhesive if the customer needs a conductive floor.

FORBO WALL BASE

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 Wall Base is an optional accessory for use with Sphera SD | EC. Forbo Wall Base is produced in roll form and constructed from high grade resins, thermoplastic binders, fillers, and pigments.

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 Sphera SD | EC.

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 Sphera SD | EC.

FORBO HEAVY DUTY 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 Heavy Duty Cleaner is a recommended cleaning product for use with Sphera SD | EC.

FORBO SPHERA WELD ROD

MANUFACTURER (OR GENERIC): Forbo Flooring Systems

HPD URL: No HPD Available

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: The Forbo Sphera Weld Rod is the recommended weld rod for seaming Forbo Sphera SD | EC.

Section 5: General Notes

Sphera SD | EC 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: **5704500319**

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

GreenScreen (GS)

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)

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

PreC Pre-consumer recycled content

PostC Post-consumer recycled content

UNK Inclusion of recycled content is unknown

None Does not include recycled content

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