Magnetic Glass Marker Boards by Bendheim LLC

Health Product Declaration v2.3

created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 95567744000 CLASSIFICATION: 08 80 00 Glazing

PRODUCT DESCRIPTION: Magnetic Glass Marker Boards (Float and Etched): Glass marker boards are sheets of back painted glass with a sheet steel backing. The glass is available in regular and low-iron, Low-iron glass is produced with a minimal amount of iron, reducing the greenish tint and improving light transmission. The glass is available as laminated, standard annealed or safety tempered; annealed glass is glass in its basic form that breaks into jagged pieces, while tempered glass is approximately four times stronger and breaks into small dice-sized pieces. Laminated glass is a safety product; if broken, it remains in place, held together by the interlayer at its core. The magnetic marker boards are offered monolithic, and laminated forms. Monolithic magnetic marker boards are a single piece of back-painted glass with a steel backing. Laminated magnetic marker boards are two pieces of back-painted glass bonded together with a PVB or EVA with a sheet of steel between them to create a marker board with an "A" and a "B" side. A fabrication option is digital printing ceramic inks onto the glass surface producing high-resolution graphics and images. Another fabrication option is to apply Bendheim's ZKISS Concealed Glass Cladding System to the marker board to facilitate installation of the board.



Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

Nested Materials Method

C Basic Method

Threshold Disclosed Per

Material

Product

Threshold Level

C 100 ppm

C Per GHS SDS

Other

Residuals/Impurities Evaluation

Completed in 28 of 28 Materials

Explanation(s) provided for Residuals/Impurities?

Yes ○ No

For all contents above the threshold, the manufacturer has:

Characterized

Yes ○ No

Provided weight and role.

Screened

⊙ Yes ⊖ No

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.

NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR **IMPURITY**

GREENSCREEN SCORE | HAZARD TYPE

GLASS (FLOAT OR ETCHED) [SODA-LIME SILICATE GLASS NOGS] MAGNETIC INTERLAYER (GALVANIZED STEEL) [IRON LT-P1 | END ZINC LT-P1 | MUL | AQU MANGANESE LT-P1 | END | MUL | REP | MAM | AQU | PVB LAMINATING FILM | ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL, CYCLIC ACETAL WITH BUTANAL LT-UNK HEXANOIC ACID, 2-ETHYL-, 1,2-ETHANEDIYLBIS(OXY-2,1-ETHANEDIYL) ESTER LT-UNK] ALUMINUM Z-CLIPS [ALUMINUM BM-1 | END | PHY | MAM | TAPE [TAPE Not Screened] BACK-PAINTED COLORANT 1 [WATER BM-4 UNDISCLOSED NoGS] CERAMIC INKS (DIGITAL-PRINTING) []

Number of Greenscreen BM-4/BM3 contents ... 21

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1, BM-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

"Proprietary Ingredient Due Diligence Exception"; Method: "Direct entry of data without variability of CASRN or other identifier"

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.3, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight for each substance. Substances not "Identified" are those considered proprietary to suppliers, and thus are "Undisclosed" on this HPD. The variation in content is due to varying proportions of materials in substances due to the same product being available in different thicknesses and with different options: Glass (Float, Textured and Etched) in 6mm to 12mm total glass thickness, EVA or PVB laminating film with back painted or optional ceramic inks (digital printing), magnetic interlayer, optional Bendheim's proprietary Z-KISS attachment. Metal alloy have been reported by listing the individual aloying elements that, when combinded, make up the metal alloy as required by the Metal Alloy Special Condition Document (SCMetalAlloy/2023-07-20). It should be noted that the alloying process modifies the properties of the material, usually providing increased strength, malleability, or resistance to corrosion. For example, steel (CAS RN 12597-69-2) does not have a GreenScreen Score nor hazards (refer to Pharos). Finally, an "Exception for proprietary ingredient" has been used for the Tape Material for which the composition by substances CAS RN has not been identified. The Tape Material represents less than 1.5 wt.% of the product and is a homogenous material. This reporting is compliant with HPDC's Best Practice document "Content Inventory Completeness".

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: CDPH Standard Method - Not tested

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1.
Pre-checked for LEED v4.1 Option 1.

Third Party Verified?

O Yes
O No

PREPARER: Vertima

VERIFIER: VERIFICATION #: SCREENING DATE: 2024-05-17 PUBLISHED DATE: 2024-05-17 EXPIRY DATE: 2027-05-17

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

GLASS (FLOAT OR ETCHED) %: 45.0000 - 85.0000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Glass

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system. It should be noted that glass by itselft is an inherently nonemitting source as defined by LEED.

SODA-LIME SILICATE GLASS ID: 2446523-50-6

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZAF	RD SCREENING DATE: 2024-05-17 10:57:27
%: 100.0000 - 100.0000	GreenScreen: NoGS	RC: Both	NANO: Unknown	SUBSTANCE ROLE: Structure component
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No	warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	I
None found				No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Post-consumer recycled content may be processed glass and pre-consumer recycled content may come from external cutting plants.

MAGNETIC INTERLAYER (GALVANIZED STEEL)

%: 14.0000 - 57.0000

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED:

MATERIAL TYPE: Other: Not

Yes

Set

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system. This material also includes the galvanized steel part of the Z-Kiss system. It should be noted that steel is a metal alloy and alloys are generally expected to have different hazards than their alloying elements. According to Pharos, steel (CAS RN 12597-69-2) does not have a GreenScreen Score (NoGS) nor hazards. The UNS number for this steel is not known.

IRON ID: 7439-89-6

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2024-05-17 10:57:27

%: 95.0000 - 99.9000 GreenScreen: LT-P1 RC: Both NANO: Unknown SUBSTANCE ROLE: Alloy element

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: It should be noted that iron is an alloying element of steel, the metal alloy, and that alloys are generally expected to have different hazards than their alloying elements. Weight ranges are used to cover variation in product manufacturing. Steel contains pre and post consumer recycled content.

ZINC ID: 7440-66-6

HAZARD DATA SOURCE:	Pharos Chemical and Materials Libr	ary	HAZARD SC	REENING DATE: 2024-05-17 10:57:27
%: 0.1000 - 4.0000	GreenScreen: LT-P1	RC: None	NANO: Unknown	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MUL	German FEA - Substances Waters	Hazardous to	Class 3 - Severe Haz	ard to Waters
AQU	GHS - New Zealand		Hazardous to the aqu	atic environment - acute category 1
AQU	GHS - New Zealand		Hazardous to the aqu	atic environment - chronic category 1
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Green Science Policy Institu	te (GSPI)	GSPI - Six Classes P	recautionary List
			Antimicrobials	
RESTRICTED LIST	Cradle to Cradle Products Ir (C2CPII)	nnovation Institute	C2C Certified v4 Proc List (RSL) - Effective	duct Standard Restricted Substances July 1, 2022
			Biological and Environ	nmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Ir (C2CPII)	nnovation Institute	C2C Certified v4 Proc List (RSL) - Effective	duct Standard Restricted Substances July 1, 2022
			Children's Products	

SUBSTANCE NOTES: Zinc is part of the galvanized coating of the steel metal alloy. It is bounded to the steel. Hazard related to the galvanized coated steel are generally expected to have different hazards than their composing elements. Weight ranges are used to cover variation in product manufacturing.

MANGANESE ID: 7439-96-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2024-05-17 10:57:27
%: 0.0000 - 0.6000 GreenScreen: LT-P1 RC: None NANO: Unknown SUBSTANCE ROLE: Alloy element

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]
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 - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 3
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]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 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 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products

SUBSTANCE NOTES: It should be noted that manganese is an alloying element of steel, the metal alloy, and that alloys are generally expected to have different hazards than their alloying elements. Weight ranges are used to cover variation in product manufacturing.

PVB LAMINATING FILM %: 0.0000 - 13.5000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

 ${\sf RESIDUALS} \ {\sf AND} \ {\sf IMPURITIES} \ {\sf NOTES} : \ {\sf Residuals} \ {\sf and} \ {\sf impurities} \ {\sf were} \ {\sf evaluated} \ {\sf based} \ {\sf on} \ {\sf provided} \ {\sf supplier} \ {\sf data}.$

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system. Minimum weight % is zero as the Magnetic Glass Marker Boards are available with back-painted Monolithic Glass or back-painted Laminated Glass. Monolithic Glass has no EVA or PVB laminating film.

HAZARD DATA SOURCE: P	Pharos Chemical and Materials Library	1	HAZARD	SCREENING DATE: 2024-05-17 10:57:27
%: 72.0000 - 72.0000	GreenScreen: LT-UNK	RC: None	NANO: Unknown	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	arnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			N	No listings found on Additional Hazard Lists
SUBSTANCE NOTES:				

HEXANOIC ACID, 2-ETHYL-, 1,2-ETHANEDIYLBIS(OXY-2,1-ETHANEDIYL) ESTER

ID: **94-28-0**

HAZARD DATA SOURCE: P	AZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SO	CREENING DATE: 2024-05-17 10:57:27
%: 28.0000 - 28.0000	GreenScreen: LT-UNK	RC: None	NANO: Unknown	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	LIST NAME AND SOURCE	E	WARNINGS	
None found			No warr	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	Ē	NOTIFICATION	
RESTRICTED LIST	Green Science Policy Insti	tute (GSPI)	GSPI - Six Classes F	Precautionary List
			Some Solvents	

SUBSTANCE NOTES:

ALUMINUM Z-CLIPS %: 0.0000 - 4.8000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Other: Not Set

 ${\sf RESIDUALS} \ {\sf AND} \ {\sf IMPURITIES} \ {\sf NOTES} : \ {\sf Residuals} \ {\sf and} \ {\sf impurities} \ {\sf were} \ {\sf evaluated} \ {\sf based} \ {\sf on} \ {\sf provided} \ {\sf supplier} \ {\sf data}.$

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system. This material is only present with the Z-Kiss system. It should be noted that this material is an aluminum alloy and alloys are generally expected to have different hazards than their alloying elements. For the Z-Kiss system, aluminum 6061-T6, 6063-T6 & 6005A-T61 may be used (UNS A96061, UNS A96063 & UNS A96005). According to Pharos, aluminum alloy UNS A96061, UNS A96063 & UNS A96005 do not have a GreenScreen Score (NoGS) nor hazards.

ALUMINUM ID: 7429-90-5

%: 96.5000 - 97.3000	GreenScreen: BM-1	RC: Both	NANO: Unknown	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	LIST NAME AND SOURCE	Œ	WARNINGS	
END	TEDX - Potential Endocri	ne Disruptors	Potential Endocrine	e Disruptor
PHY	EU - GHS (H-Statements)	Annex 6 Table 3-1		e spontaneously if exposed to air Pyrophoric solids - Category 1]
MAM	GHS - Japan		repeated exposure	nage to organs through prolonged or [Specific target organs/systemic toxicity exposure - Category 1]
MAM	GHS - Japan			nage to organs [Specific target xicity following single exposure -
PHY	GHS - Japan			vith water releases flammable gas iixtures, which in contact with water, emit Category 2]
PHY	GHS - Malaysia			e spontaneously if exposed to air Pyrophoric solids - Category 1]
PHY	GHS - Australia			e spontaneously if exposed to air Pyrophoric solids - Category 1]
PHY	GHS - New Zealand		Pyrophoric solids ca	ategory 1
ADDITIONAL LISTINGS	LIST NAME AND SOURC	DE .	NOTIFICATION	
RESTRICTED LIST	Cradle to Cradle Products (C2CPII)	Innovation Institute	C2C Certified v4 Pr List (RSL) - Effectiv	roduct Standard Restricted Substances re July 1, 2022
			Biological and Envi	ronmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products (C2CPII)	Innovation Institute	C2C Certified v4 Pr List (RSL) - Effectiv	roduct Standard Restricted Substances re July 1, 2022
			Children's Products	S

SUBSTANCE NOTES: It should be noted that aluminum is an alloying element of the alluminum alloy, the metal alloy, and that alloys are generally expected to have different hazards than their alloying elements. Weight ranges are used to cover variation in product manufacturing. The aluming alloy contains pre and post consumer recycled content.

TAPE %: 0.0000 - 1.5000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: No data was collected for this material

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system. Tape is used with the Z-Kiss system only.

TAPE ID: Unknown

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: Not Screened

%: 100.0000 GreenScreen: Not Screened RC: None NANO: No SUBSTANCE ROLE: Adhesive

HAZARD TYPE LIST NAME AND SOURCE WARNINGS

Proprietary Ingredient Due Diligence Exception

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION

Proprietary Ingredient Due Diligence Exception

SUBSTANCE NOTES: There are no hazards associated with this component according to the manufacturer's product safety data sheet. Note that the "Exception for proprietary ingredient" has been used for this material.

BACK-PAINTED COLORANT 1

%: 0.1000 - 0.6000

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

HAZARD DATA SOURCE: P	haros Chemical and Materials Lib	orary	HAZARD) SCREENING DATE: 2024-05-17 10:57:28
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	≣	WARNINGS	
None found			No w	varnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	=	NOTIFICATION	
EXEMPT	European Union / Europea EC)	n Commission (EU	EU - REACH Exe	emptions
	_5,		Exempted from R safety	REACH Annex IV listing due to intrinsic

UNDISCLOSED ID: Undisclosed

HAZARD DATA SOURCE:	Toxnot Chemical Hazard Screening Library		HAZARD S	CREENING DATE: 2024-04-19 11:49:07
%: 27.0000 - 47.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	1	WARNINGS	
None found			No war	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	1	NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

CERAMIC INKS (DIGITAL-PRINTING) %: 0.0000 - 0.2000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system. All substances in this material are below the reportable threshold.

BACK-PAINTED COLORANT 12 %: 0.1000 - 0.6000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

ALTERNATE: This nested material is an alternate nested material to Back-Painted Colorant 1.

WATER				ID: 7732-18-5
HAZARD DATA SOURCE: Ph	aros Chemical and Materials Lib	orary	HAZARD	SCREENING DATE: 2024-05-17 10:57:28
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURC	E	WARNINGS	
None found			No w	varnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURC	E	NOTIFICATION	
EXEMPT	European Union / Europea	an Commission (EU	EU - REACH Exe	emptions
	EO)		Exempted from R safety	REACH Annex IV listing due to intrinsic

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

HAZARD DATA SOURCE: T	oxnot Chemical Hazard Screening Library		HAZARD S	CREENING DATE:	2024-04-19 11:48:25
%: 27.0000 - 47.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE F	ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	V	/ARNINGS		
None found			No war	nings found on HPD	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	N	OTIFICATION		
None found			No	listings found on Ad	dditional Hazard Lists

PVB LAMINATING FILM (ALT) %: 0.0000 - 13.5000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system. Minimum weight % is zero as the Magnetic Glass Marker Boards are available with back-painted Monolithic Glass or back-painted Laminated Glass. Monolithic Glass has no EVA or PVB laminating film.

ALTERNATE: This nested material is an alternate nested material to PVB Laminating film.

ACETIC ACID ETHENYL ESTER, POLYMER WITH 1,1-BIS(ETHENYLOXY)BUTANE AND ETHENOL

ID: 27360-07-2

HAZARD DATA SOURCE: P	Pharos Chemical and Materials Library		HAZARD	SCREENING DATE: 2024-05-17 10:57:28
%: 70.0000 - 83.0000	GreenScreen: LT-UNK	RC: None	NANO: Unknown	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	arnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			N	No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

HEXANOIC ACID, 2-ETHYL-, 1,2-ETHANEDIYLBIS(OXY-2,1-ETHANEDIYL) ESTER

ID: **94-28-0**

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SO	CREENING DATE: 2024-05-17 10:57:29
%: 17.0000 - 33.0000	GreenScreen: LT-UNK	RC: None	NANO: Unknown	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No warn	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Green Science Policy Institu	te (GSPI)	GSPI - Six Classes F	Precautionary List
			Some Solvents	

CALCIUM CARBONATE				ID: 471-34-1
HAZARD DATA SOURCE:	Pharos Chemical and Materials Libra	ary	HAZARD SC	CREENING DATE: 2024-05-17 10:57:29
%: 0.0000 - 5.0000	GreenScreen: BM-3	RC: None	NANO: Unknown	SUBSTANCE ROLE: Pigment
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
EYE	GHS - New Zealand		Eye irritation category	y 2
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No I	listings found on Additional Hazard Lists

 ${\tt SUBSTANCE\ NOTES: Exact\ percentage\ (concentration)\ of\ composition\ has\ been\ withheld\ as\ a\ trade\ secret.}$

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

TITANIUM DIOXIDE ID: 13463-67-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2024-05-17 10:57:28

%: 1.0000 - 2.0000	GreenScreen: BM-1	C: None	NANO: Unknown	SUBSTANCE ROLE: Opacifier
HAZARD TYPE	LIST NAME AND SOURCE	LIST NAME AND SOURCE		
CAN	US CDC - Occupational Carcinoger	าร	Occupational Carcino	gen
CAN	CA EPA - Prop 65		Carcinogen - specific	to chemical form or exposure route
CAN	IARC		Group 2B - Possibly coccupational sources	arcinogenic to humans - inhaled from
CAN	MAK		Carcinogen Group 3A not sufficient to estable	- Evidence of carcinogenic effects but ish MAK/BAT value
END	TEDX - Potential Endocrine Disrupt	ors	Potential Endocrine D	isruptor
CAN	MAK		Carcinogen Group 4 - risk under MAK/BAT k	Non-genotoxic carcinogen with low evels
CAN	IARC		Group 2b - Possibly c	arcinogenic to humans
CAN	EU - GHS (H-Statements) Annex 6	Table 3-1	H351 - Suspected of c Category 2]	causing cancer [Carcinogenicity -
CAN	GHS - Japan		H351 - Suspected of c Category 2]	causing cancer [Carcinogenicity -
МАМ	GHS - Japan			ge to organs through prolonged or pecific target organs/systemic toxicity posure - Category 1]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Cradle to Cradle Products Innovation (C2CPII)	on Institute	C2C Certified v4 Prod List (RSL) - Effective	luct Standard Restricted Substances July 1, 2022
			Children's Products	
RESTRICTED LIST	Cradle to Cradle Products Innovation (C2CPII)	on Institute	C2C Certified v4 Prod List (RSL) - Effective	luct Standard Restricted Substances July 1, 2022
			Formulated Consume	r Products
RESTRICTED LIST	Cradle to Cradle Products Innovation (C2CPII)	on Institute	C2C Certified v4 Prod List (RSL) - Effective	luct Standard Restricted Substances July 1, 2022
			Cosmetics & Persona	I Care Products
POSITIVE LIST	US Environmental Protection Agend	cy (US EPA)	US EPA - DfE Safer C	Chemicals Ingredients list (SCIL)
			Colorants - Green Circ	cle (Verified Low Concern)

 ${\tt SUBSTANCE\ NOTES: Exact\ percentage\ (concentration)\ of\ composition\ has\ been\ withheld\ as\ a\ trade\ secret.}$

BACK-PAINTED COLORANT 20 %: 0.1000 - 0.6000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

ALTERNATE: This nested material is an alternate nested material to Back-Painted Colorant 1.

WATER					ID: 7732-18-5
HAZARD DATA SOURCE: PI	haros Chemical and Materials Libr	ary	HAZARD	SCREENING DATE:	2024-05-17 10:57:29
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE RC	DLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No w	arnings found on HPD	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
EXEMPT	European Union / European EC)	Commission (EU	EU - REACH Exe	mptions	
	20)		Exempted from R safety	EACH Annex IV listing	due to intrinsic

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

HAZARD DATA SOURCE: Tox	not Chemical Hazard Screening Libra	ary	HAZARD S	CREENING DATE: 2024-04-19 11:49:03
%: 27.0000 - 47.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	V	VARNINGS	
None found			No war	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	N	NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

 ${\tt SUBSTANCE\ NOTES:}\ The\ specific\ chemical\ identity\ and/or\ exact\ percentage\ (concentration)\ of\ composition\ has\ been\ withheld\ as\ a\ trade\ secret.$

BACK-PAINTED COLORANT 19 %: 0.1000 - 0.6000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2024-05-17 10:57:2		
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating	
HAZARD TYPE	LIST NAME AND SOURCE	Ξ	WARNINGS		
None found			No w	varnings found on HPD Priority Hazard Lists	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	≣	NOTIFICATION		
EXEMPT	European Union / Europea EC)	n Commission (EU	EU - REACH Exe	emptions	
			Exempted from R safety	EACH Annex IV listing due to intrinsic	

UNDISCLOSED ID: Undisclosed

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

HAZARD DATA SOURCE: To	oxnot Chemical Hazard Screening Libra	ry	HAZARD S	CREENING DATE: 2024-04-19 11:48:58
%: 27.0000 - 47.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	V	VARNINGS	
None found			No war	rnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	N	IOTIFICATION	
None found			No	listings found on Additional Hazard Lists
SUBSTANCE NOTES: The s	pecific chemical identity and/or exact perce	entage (concentrat	ion) of composition	n has been withheld as a trade secret.

HAZARD DATA SOURCE:	Toxnot Chemical Hazard Screening Library		HAZARD S	CREENING DATE: 2024-04-19 11:49:0
%: 10.0000 - 25.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	1	WARNINGS	
None found			No war	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	ı	NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

HAZARD DATA SOURCE:	ZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2024-05-17 1	
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No w	varnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
EXEMPT	European Union / European EC)	Commission (EU	EU - REACH Exe	emptions
			Exempted from R safety	EACH Annex IV listing due to intrinsic

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

HAZADD DATA COLIDCE: Town	at Chamical Hazard Saraaning Libra	NEW AND ADDRESS OF THE ADDRESS OF TH	LAZADD C	CREENING DATE: 2024-04-19 11:48:52
HAZARD DATA SOURCE. TOXII	ot Chemical Hazard Screening Libra	ıry	HAZARD 5	CREENING DATE. 2024-04-19 11:46:32
%: 27.0000 - 47.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	V	/ARNINGS	
None found			No war	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	N	OTIFICATION	
None found			No	listings found on Additional Hazard Lists

SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

HAZARD DATA SOURCE: Tox	not Chemical Hazard Screening Libra	ıry	HAZARD S	CREENING DATE:	2024-04-19 11:48:55
%: 10.0000 - 25.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE F	ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	W	/ARNINGS		
None found			No war	nings found on HPD	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	N	OTIFICATION		
None found			No	listings found on A	dditional Hazard Lists

BACK-PAINTED COLORANT 17

%: 0.1000 - 0.6000 ALTERNATE

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

WATER				ID: 7732-18-5
HAZARD DATA SOURCE: P	haros Chemical and Materials Lib	orary	HAZARD	SCREENING DATE: 2024-05-17 10:57:30
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	Ē	WARNINGS	
None found			No w	varnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	E	NOTIFICATION	
EXEMPT	European Union / Europea EC)	n Commission (EU	EU - REACH Exe	mptions
	20)		Exempted from R safety	EACH Annex IV listing due to intrinsic

JNDISCLOSED				ID: Undisclosed
HAZARD DATA SOURCE: 1	Toxnot Chemical Hazard Screening Library		HAZARD S	CREENING DATE: 2024-04-19 11:48:47
%: 27.0000 - 47.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	V	VARNINGS	
None found			No war	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	١	NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

TITANIUM DIOXIDE				ID: 13463-67-7
HAZARD DATA SOURCE: Pha	ros Chemical and Materials Lib	orary	HAZARD	SCREENING DATE: 2024-05-17 10:57:30
%: 10.0000 - 25.0000	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]
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 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 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 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: Exact percentage (concentration) of composition has been withheld as a trade secret.

BACK-PAINTED COLORANT 16 %: 0.1000 - 0.6000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

 ${\sf RESIDUALS} \ {\sf AND} \ {\sf IMPURITIES} \ {\sf NOTES} : \ {\sf Residuals} \ {\sf and} \ {\sf impurities} \ {\sf were} \ {\sf evaluated} \ {\sf based} \ {\sf on} \ {\sf provided} \ {\sf supplier} \ {\sf data}.$

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

ALTERNATE: This nested material is an alternate nested material to Back-Painted Colorant 1.

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

WATER				ID: 7732-18-5
HAZARD DATA SOURCE: Ph	aros Chemical and Materials Lib	orary	HAZARD	SCREENING DATE: 2024-05-17 10:57:30
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURC	E	WARNINGS	
None found			No w	varnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURC	E	NOTIFICATION	
EXEMPT	European Union / Europea EC)	n Commission (EU	EU - REACH Exe	emptions
	,		Exempted from R safety	REACH Annex IV listing due to intrinsic

UNDISCLOSED				ID: Undisclosed
HAZARD DATA SOURCE:	Toxnot Chemical Hazard Screening Library		HAZARD S	CREENING DATE: 2024-04-19 11:48:42
%: 27.0000 - 47.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No warı	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: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

TITANIUM DIOXIDE			ID: 13463-67-7	
HAZARD DATA SOURCE: F	Pharos Chemical and Materials Lib	orary	HAZARD SC	REENING DATE: 2024-05-17 10:57:30
%: 10.0000 - 25.0000	GreenScreen: BM-1	RC: None	NANO: Unknown	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]
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 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 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 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: Exact percentage (concentration) of composition has been withheld as a trade secret.

BACK-PAINTED COLORANT 15 %: 0.1000 - 0.6000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

 ${\sf RESIDUALS} \ {\sf AND} \ {\sf IMPURITIES} \ {\sf NOTES} : \ {\sf Residuals} \ {\sf and} \ {\sf impurities} \ {\sf were} \ {\sf evaluated} \ {\sf based} \ {\sf on} \ {\sf provided} \ {\sf supplier} \ {\sf data}.$

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

ALTERNATE: This nested material is an alternate nested material to Back-Painted Colorant 1.

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

WATER				ID: 7732-18-5
HAZARD DATA SOURCE: PI	haros Chemical and Materials Lib	rary	HAZARD	SCREENING DATE: 2024-05-17 10:57:30
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	≣	WARNINGS	
None found			No w	varnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	=	NOTIFICATION	
EXEMPT	European Union / Europea EC)	n Commission (EU	EU - REACH Exe	emptions
	EO)		Exempted from R safety	EACH Annex IV listing due to intrinsic

UNDISCLOSED ID: Undisclosed

HAZARD DATA SOURCE:	Toxnot Chemical Hazard Screening Library		HAZARD S	CREENING DATE: 2024-04-19 11:48:37
%: 27.0000 - 47.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wari	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: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

HAZARD DATA SOURCE:	Pharos Chemical and Materials Lil	brary	HAZARD	SCREENING DATE: 2024-05-17 10:57:31
%: 10.0000 - 25.0000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Coating

TITANIUM DIOXIDE

ID: 13463-67-7

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 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 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 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: Exact percentage (concentration) of composition has been withheld as a trade secret.

BACK-PAINTED COLORANT 14 %: 0.1000 - 0.6000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2024-05-17 10:57:3		
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No w	varnings found on HPD Priority Hazard Lists	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
EXEMPT	European Union / Europear EC)	Commission (EU	EU - REACH Exe	emptions	
			Exempted from R safety	EACH Annex IV listing due to intrinsic	
			safety		

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

	HAZARD DATA SOURCE: T	oxnot Chemical Hazard Screening Librar	у	HAZARD S	CREENING DATE: 2024-04-19 11:48:33
ľ	%: 27.0000 - 47.0000	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	1	NOTIFICATION	

SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

BACK-PAINTED COLORANT 13 %: 0.1000 - 0.6000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

ALTERNATE: This nested material is an alternate nested material to Back-Painted Colorant 1.

UNDISCLOSED

None found

ID: Undisclosed

No listings found on Additional Hazard Lists

aros Chemical and Materials Lib	iaiy	HAZARD SCREENING DATE: 2024-05-17 10:57:		
GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating	
LIST NAME AND SOURCE	Ē	WARNINGS		
		No w	rarnings found on HPD Priority Hazard Lists	
LIST NAME AND SOURCE	=	NOTIFICATION		
	n Commission (EU	EU - REACH Exe	mptions	
20)		Exempted from R safety	EACH Annex IV listing due to intrinsic	
	LIST NAME AND SOURCE	LIST NAME AND SOURCE LIST NAME AND SOURCE European Union / European Commission (EU	LIST NAME AND SOURCE No w LIST NAME AND SOURCE NOTIFICATION European Union / European Commission (EU EU - REACH Exe EC) Exempted from R	

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

UNDISCLOSED				ID: Undisclosed
HAZARD DATA SOURCE: T	oxnot Chemical Hazard Screening Librar	ry	HAZARD S	CREENING DATE: 2024-04-19 11:48:29
%: 27.0000 - 47.0000	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: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

EVA LAMINATING FILM %: 0.0000 - 13.5000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system. Minimum weight % is zero as the Magnetic Glass Marker Boards are available with back-painted Monolithic Glass or back-painted Laminated Glass. Monolithic Glass has no EVA or PVB laminating film.

ALTERNATE: This nested material is an alternate nested material to PVB Laminating film.

UNDISCLOSED				ID: Undisclosed
HAZARD DATA SOURCE:	Toxnot Chemical Hazard Screening Library		HAZARD S	SCREENING DATE: 2024-04-19 11:47:31
%: 92.0000 - 96.0000	GreenScreen: LT-UNK	RC: Both	NANO: Unknown	SUBSTANCE ROLE: Polymer species

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Mult*
	EC - CEPA DSL	Persistence
MUL	EC - CEPA DSL	Mult*
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

UNDISCLOSED				ID: Undisclosed
HAZARD DATA SOURCE:	Toxnot Chemical Hazard Screening Library	/	HAZARD SO	CREENING DATE: 2024-04-19 11:47:32
%: 0.1000 - 3.0000	GreenScreen: LT-UNK	RC: Both	NANO: Unknown	SUBSTANCE ROLE: Curing agent
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: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

UNDISCLOSED				ID: Undisclosed
HAZARD DATA SOURCE: Toxnot (Chemical Hazard Screening Library		HAZARD SCF	REENING DATE: 2024-04-19 11:47:34
%: 0.1000 - 3.0000 G	reenScreen: LT-UNK	RC: Both	NANO: Unknown	SUBSTANCE ROLE: Adhesive
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MUL	German FEA - Substances Hazardo Waters	ous to	Mult*	
EYE	New Zealand - GHS		Eye Irritation/Corrosivity	
SKI	New Zealand - GHS		Skin Irritation/Corrosivity	y
AQU	Korea - GHS		Acute Aquatic Toxicity	
MAM	New Zealand - GHS		Systemic Toxicity/Organ	n Effects (Single Exposure)
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No lis	tings found on Additional Hazard Lists

HAZARD DATA SOURCE: Toxnot Chemical Hazard Screening Library HAZARD SCREENING DATE: 2024-04-19 11:47:35 %: 0.0100 - 2.0000 GreenScreen: LT-UNK RC: Both NANO: Unknown SUBSTANCE ROLE: Heat or UV stabilizer HAZARD TYPE LIST NAME AND SOURCE WARNINGS MUL German FEA - Substances Hazardous to Mult* Waters EC - CEPA DSL Persistence

NOTIFICATION

BACK-PAINTED COLORANT 11 %: 0.1000 - 0.6000 ALTERNATE
SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

PRODUCT THRESHOLD: 1000 ppm

ADDITIONAL LISTINGS

None found

UNDISCLOSED

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Polymeric Material

No listings found on Additional Hazard Lists

ID: Undisclosed

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

LIST NAME AND SOURCE

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2024-05-17 10:57:3		
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating	
HAZARD TYPE	LIST NAME AND SOURCE	≣	WARNINGS		
None found			No w	varnings found on HPD Priority Hazard Lists	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	≣	NOTIFICATION		
EXEMPT European Union / European Commission (EU EC)		EU - REACH Exemptions			
	_5/		Exempted from R safety	EACH Annex IV listing due to intrinsic	

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

UNDISCLOSED ID: Undisclosed HAZARD DATA SOURCE: Toxnot Chemical Hazard Screening Library HAZARD SCREENING DATE: 2024-04-19 11:48:21 %: 27.0000 - 47.0000 GreenScreen: NoGS RC: None NANO: No SUBSTANCE ROLE: Coating HAZARD TYPE LIST NAME AND SOURCE **WARNINGS** No warnings found on HPD Priority Hazard Lists None found ADDITIONAL LISTINGS **NOTIFICATION** LIST NAME AND SOURCE None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

BACK-PAINTED COLORANT 10 %: 0.1000 - 0.6000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

ALTERNATE: This nested material is an alternate nested material to Back-Painted Colorant 1.

WATER ID: 7732-18-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2024-05-17 10:57:31
%: 30.0000 - 50.0000 GreenScreen: BM-4 RC: None NANO: No SUBSTANCE ROLE: Coating

	EC)	Exempted from REACH Annex IV listing due to intrinsic safety
EXEMPT	European Union / European Commission (EU	EU - REACH Exemptions
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: Exact percentage (concentration) of composition has been withheld as a trade secret.

UNDISCLOSED				ID: Undisclosed
HAZARD DATA SOURCE:	Toxnot Chemical Hazard Screening Library		HAZARD S	CREENING DATE: 2024-04-19 11:48:16
%: 27.0000 - 47.0000	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: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

HAZARD DATA SOURCE:	Toxnot Chemical Hazard Screening Library		HAZARD S	CREENING DATE: 2024-04-19 11:48:19
%: 10.0000 - 25.0000	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	1	NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

%: 0.1000 - 0.6000 ALTERNATE BACK-PAINTED COLORANT 9

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

ALTERNATE: This nested material is an alternate nested material to Back-Painted Colorant 1.

WATER				ID: 7732-18-5
HAZARD DATA SOURCE: P	naros Chemical and Materials Lib	orary	HAZARD	SCREENING DATE: 2024-05-17 10:57:32
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	E	WARNINGS	
None found			No w	varnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	E	NOTIFICATION	
EXEMPT	European Union / Europea	n Commission (EU	EU - REACH Exe	emptions
			Exempted from R safety	EACH Annex IV listing due to intrinsic

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

HAZARD DATA SOURCE: Tox	not Chemical Hazard Screening Libra	ary	HAZARD S	CREENING DATE:	2024-04-19 11:48:12
%: 27.0000 - 47.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE F	ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	V	VARNINGS		
None found			No war	nings found on HPD	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	N	IOTIFICATION		
None found			No	listings found on Ac	dditional Hazard Lists

 ${\tt SUBSTANCE\ NOTES:}\ The\ specific\ chemical\ identity\ and/or\ exact\ percentage\ (concentration)\ of\ composition\ has\ been\ withheld\ as\ a\ trade\ secret.$

BACK-PAINTED COLORANT 8 %: 0.1000 - 0.6000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

GreenScreen: BM-4	RC: None	NANO: No	
		INAINO. NO	SUBSTANCE ROLE: Coating
LIST NAME AND SOURCE		WARNINGS	
		No w	arnings found on HPD Priority Hazard Lists
LIST NAME AND SOURCE		NOTIFICATION	
	Commission (EU	EU - REACH Exe	mptions
20)		Exempted from R safety	EACH Annex IV listing due to intrinsic
	LIST NAME AND SOURCE	LIST NAME AND SOURCE European Union / European Commission (EU	No w LIST NAME AND SOURCE European Union / European Commission (EU EU - REACH Exe EC) Exempted from R

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

UNDISCLOSED					ID: Undisclosed
HAZARD DATA SOURCE:	Toxnot Chemical Hazard Screening Library		HAZARD S	CREENING DATE: 2	2024-04-19 11:48:08
%: 27.0000 - 47.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE RC	DLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No warı	nings found on HPD F	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
None found			No	listings found on Add	itional Hazard Lists

SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

BACK-PAINTED COLORANT 7 %: 0.1000 - 0.6000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

WATER				ID: 7732-18-5
HAZARD DATA SOURCE:	Pharos Chemical and Materials Libra	ary	HAZARD	SCREENING DATE: 2024-05-17 10:57:32
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No w	arnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions
		Exempted from REACH Annex IV listing due to intrinsic safety

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

UNDISCLOSED				ID: Undisclosed
HAZARD DATA SOURCE: Tox	knot Chemical Hazard Screening Libra	nry	HAZARD S	CREENING DATE: 2024-04-19 11:48:03
%: 27.0000 - 47.0000	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	ı	NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

TITANIUM DIOXIDE ID: 13463-67-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2024-05-17 10:57:32

%: 10.0000 - 25.0000 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]
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 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 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 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: Exact percentage (concentration) of composition has been withheld as a trade secret.

ALTERNATE: This substance is an alternate substance to Undisclosed.

BACK-PAINTED COLORANT 6 %: 0.1000 - 0.6000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MAT

MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

ALTERNATE: This nested material is an alternate nested material to Back-Painted Colorant 1.

WATER				ID: 7732-18-5
HAZARD DATA SOURCE: Pha	aros Chemical and Materials Lib	orary	HAZARD	SCREENING DATE: 2024-05-17 10:57:32
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURC	E	WARNINGS	
None found			No w	varnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURC	E	NOTIFICATION	
EXEMPT	European Union / Europea	an Commission (EU	EU - REACH Exe	emptions
	LO)		Exempted from R safety	REACH Annex IV listing due to intrinsic

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

HAZARD DATA SOURCE: To	xnot Chemical Hazard Screening Libra	ıry	HAZARD S	CREENING DATE: 2024-04-19 11:47:59
%: 27.0000 - 47.0000	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

 ${\tt SUBSTANCE\ NOTES:}\ The\ specific\ chemical\ identity\ and/or\ exact\ percentage\ (concentration)\ of\ composition\ has\ been\ withheld\ as\ a\ trade\ secret.$

BACK-PAINTED COLORANT 5 %: 0.1000 - 0.6000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

HAZARD DATA SOURCE:	JRCE: Pharos Chemical and Materials Library		URCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2024-05-17 1		SCREENING DATE: 2024-05-17 10:57:32
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No w	varnings found on HPD Priority Hazard Lists	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
EXEMPT	European Union / Europear EC)	Commission (EU	EU - REACH Exe	emptions	
	20)		Exempted from R safety	EACH Annex IV listing due to intrinsic	

UNDISCLOSED ID: Undisclosed HAZARD DATA SOURCE: Toxnot Chemical Hazard Screening Library HAZARD SCREENING DATE: 2024-04-19 11:47:55 %: 27.0000 - 47.0000 GreenScreen: NoGS RC: None NANO: No SUBSTANCE ROLE: Coating HAZARD TYPE LIST NAME AND SOURCE **WARNINGS** No warnings found on HPD Priority Hazard Lists None found ADDITIONAL LISTINGS NOTIFICATION LIST NAME AND SOURCE

SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

BACK-PAINTED COLORANT 4 %: 0.1000 - 0.6000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

ALTERNATE: This nested material is an alternate nested material to Back-Painted Colorant 1.

None found

No listings found on Additional Hazard Lists

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2024-05-17 10:57		
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	≣	WARNINGS	
None found			No w	rarnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	=	NOTIFICATION	
EXEMPT	European Union / Europea	n Commission (EU	EU - REACH Exe	mptions
	20)		Exempted from R safety	EACH Annex IV listing due to intrinsic

UNDISCLOSED ID: Undisclosed HAZARD DATA SOURCE: Toxnot Chemical Hazard Screening Library HAZARD SCREENING DATE: 2024-04-19 11:47:52 RC: None %: 27.0000 - 47.0000 GreenScreen: NoGS NANO: **No** SUBSTANCE ROLE: Coating **WARNINGS** HAZARD TYPE LIST NAME AND SOURCE 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: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

BACK-PAINTED COLORANT 3 %: 0.1000 - 0.6000 ALTERNATE

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were evaluated based on provided supplier data.

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

HAZARD DATA SOURCE: P	HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2024-05-17 10:57	
%: 30.0000 - 50.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating
HAZARD TYPE	LIST NAME AND SOURCE	<u> </u>	WARNINGS	
None found			No w	varnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	.	NOTIFICATION	
EXEMPT	European Union / European	n Commission (EU	EU - REACH Exe	mptions
	_5/		Exempted from R safety	EACH Annex IV listing due to intrinsic

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

HAZARD DATA SOURCE: Toxnot Chemical Hazard Screening Library			HAZARD SCREENING DATE: 2024-04-19 11:47:48		
%: 27.0000 - 47.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Coating	
HAZARD TYPE	LIST NAME AND SOURCE	V	VARNINGS		
None found			No war	nings found on HPD Priority Hazard Lists	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	N	IOTIFICATION		
None found			No	listings found on Additional Hazard Lists	

SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

 ${\sf RESIDUALS} \ {\sf AND} \ {\sf IMPURITIES} \ {\sf NOTES} : \ {\sf Residuals} \ {\sf and} \ {\sf impurities} \ {\sf were} \ {\sf evaluated} \ {\sf based} \ {\sf on} \ {\sf provided} \ {\sf supplier} \ {\sf data}.$

%: 0.1000 - 0.6000 ALTERNATE

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials due to the same product being available in different thicknesses and with different options: glass (Float or Etched) in 6 mm to 12 mm total glass thickness, EVA or PVB laminating film for laminated glass, back-painted, optional ceramic inks (digital printing), magnetic interlayer (galvanized steel), and optional Z-Kiss system.

ALTERNATE: This nested material is an alternate nested material to Back-Painted Colorant 1.

BACK-PAINTED COLORANT 2

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2024-05-17 10:57:32		
GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Coating		
LIST NAME AND SOURCE		WARNINGS			
		No w	varnings found on HPD Priority Hazard Lists		
LIST NAME AND SOURCE		NOTIFICATION			
European Union / European Commission (EU		EU - REACH Exemptions			
EO)		Exempted from R safety	EACH Annex IV listing due to intrinsic		
	GreenScreen: BM-4 LIST NAME AND SOURCE LIST NAME AND SOURCE	GreenScreen: BM-4 RC: None LIST NAME AND SOURCE LIST NAME AND SOURCE European Union / European Commission (EU	GreenScreen: BM-4 RC: None NANO: No LIST NAME AND SOURCE WARNINGS No w LIST NAME AND SOURCE NOTIFICATION European Union / European Commission (EU EU - REACH Exe EC) Exempted from R		

SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

UNDISCLOSED ID: Undisclosed HAZARD DATA SOURCE: Toxnot Chemical Hazard Screening Library HAZARD SCREENING DATE: 2024-04-19 11:47:44 %: 27.0000 - 47.0000 GreenScreen: NoGS RC: None NANO: No SUBSTANCE ROLE: Coating HAZARD TYPE LIST NAME AND SOURCE WARNINGS No warnings found on HPD Priority Hazard Lists None found ADDITIONAL LISTINGS NOTIFICATION LIST NAME AND SOURCE None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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

CDPH Standard Method - Not tested

CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: All.

ISSUE DATE: 2024-04-19 00:00:00

CERTIFIER OR LAB: None

EXPIRY DATE:

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: It should be noted that glass by itselft is an inherently nonemitting source as defined by LEED.



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.

MECHANICAL FASTENERS

MANUFACTURER (OR GENERIC): Generic

HPD URL: No HPD Available ACCESSORY TYPE: Fastner

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: The markerboard can be glued directly to the wall using neutral cure silicones in conjunction with mechanical fasteners to support the weight of the glass.

NEUTRAL CURE SILICONES

MANUFACTURER (OR GENERIC): Generic

HPD URL: No HPD Available ACCESSORY TYPE: Adhesive

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: The markerboard can be glued directly to the wall using neutral cure silicones in conjunction with mechanical fasteners to support the weight of the glass.

Section 5: General Notes

Bendheim is one of the world's foremost resources for specialty architectural glass. Founded in New York City in 1927, the third-generation, family-owned company offers a virtually unlimited range of in-stock and custom architectural glass varieties. Bendheim develops, fabricates, and distributes its products worldwide. The company maintains production facilities in New Jersey and offices in New York City.

MANUFACTURER INFORMATION

MANUFACTURER: Bendheim LLC

ADDRESS: Bendheim LLC 82 Totowa Road, NJ 07470

COUNTRY: USA

WEBSITE: https://bendheim.com/ CONTACT NAME: Uarda Hoti

TITLE: Sustainability Program Manager

PHONE: 800-221-7379

EMAIL: uhorti@bendheim.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 for compliance with the HPD standard noted.