

HPD UNIQUE IDENTIFIER: 26081485824

CLASSIFICATION: 08 80 00 Glazing

PRODUCT DESCRIPTION: Laminated Glass (Float, Texture, and Etched): Laminated glass is a safety glass that contains two or more glass lites permanently bonded together with a PVB or an EVA. Laminated glass is a safety glass; if broken, it remains in place, held together by the interlayer at its core. Additional benefits of laminated glass can include improved UV and sound control. The glass is available in regular, low-iron, and tinted. Low-iron glass is produced with a minimal amount of iron, reducing the greenish tint and improving light transmission. Tinted glass, also called colored glass, is made by adding mineral oxides during the float glass process to create different colors. The laminated glass lites are available as 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 may also be back-painted and/or digitally printed with ceramic inks. Please find detailed information in the General Notes section.

**Section 1: Summary** **Nested Method / Product Threshold**

**CONTENT INVENTORY**

<b>Inventory Reporting Format</b>	<b>Threshold Level</b>	<b>Residuals/Impurities Evaluation</b>	<i>For all contents above the threshold, the manufacturer has:</i>
<input checked="" type="radio"/> Nested Materials Method	<input type="radio"/> 100 ppm	Completed in 26 of 26 Materials	<b>Characterized</b> <input checked="" type="radio"/> Yes <input type="radio"/> No
<input type="radio"/> Basic Method	<input checked="" type="radio"/> 1,000 ppm	<b>Explanation(s) provided for Residuals/Impurities?</b>	<i>Provided weight and role.</i>
<b>Threshold Disclosed Per</b>	<input type="radio"/> Per GHS SDS	<input checked="" type="radio"/> Yes <input type="radio"/> No	<b>Screened</b> <input checked="" type="radio"/> Yes <input type="radio"/> No
<input type="radio"/> Material	<input type="radio"/> Other		<i>Provided screening results using HPDC-approved methods.</i>
<input checked="" type="radio"/> Product			<b>Identified</b> <input type="radio"/> Yes <input checked="" type="radio"/> No
			<i>Provided name and CAS RN or other identifier.</i>

**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**

**LAMINATED GLASS (FLOAT, TEXTURED AND ETCHED) [ SODA-LIME SILICATE GLASS NoGS ] 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 ] EVA LAMINATING FILM [ UNDISCLOSED [ LT-UNK ] MUL | UNDISCLOSED [ LT-UNK ] MUL | EYE | SKI | MAM UNDISCLOSED [ LT-UNK ] UNDISCLOSED [ LT-UNK ] MUL | ] BACK-PAINTED COLORANT 1 [ WATER BM-4 UNDISCLOSED NoGS ] CERAMIC INKS (DIGITAL-PRINTING) [ FRITS, CHEMICALS (UNLEADED) [ LT-P1 ] MUL ] HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS [ NoGS ]**

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:**

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 sizes and options: Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

**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?	PREPARER: Vertima	SCREENING DATE: 2024-03-01
<input type="radio"/> Yes	VERIFIER:	PUBLISHED DATE: 2024-05-08
<input checked="" type="radio"/> No	VERIFICATION #:	EXPIRY DATE: 2027-03-01



## 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](http://www.hpd-collaborative.org/hpd-2-3-standard)

### LAMINATED GLASS (FLOAT, TEXTURED AND ETCHED)

#: 94.0000 - 99.0000

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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing). It should be noted that glass by itself 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

HAZARD SCREENING DATE: 2024-03-01 8:27:07

#: 100.0000 - 100.0000

GreenScreen: NoGS

RC: PostC

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

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.

### PVB LAMINATING FILM

#: 0.0000 - 13.9000

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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

**ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL,  
CYCLIC ACETAL WITH BUTANAL**

ID: 68648-78-2

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2024-03-01 8:27:07**

#: **72.0000 - 72.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

  

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES:

**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 SCREENING DATE: **2024-03-01 8:27:07**

#: **28.0000 - 28.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Plasticizer**

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	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List Some Solvents

SUBSTANCE NOTES:

**EVA LAMINATING FILM**

#: **0.0000 - 9.2000**

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.

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD DATA SOURCE: **Toxnot Chemical Hazard Screening Library**

HAZARD SCREENING DATE: **2024-02-29 12:37:45**

#: **92.0000 - 96.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** 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 SCREENING DATE: **2024-02-29 12:37:48**

%: **0.1000 - 3.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Adhesive**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Mult*
EYE	New Zealand - GHS	Eye Irritation/Corrosivity
SKI	New Zealand - GHS	Skin Irritation/Corrosivity
MAM	New Zealand - GHS	Systemic Toxicity/Organ Effects (Single Exposure)
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 SCREENING DATE: **2024-02-29 12:37:46**

%: **0.1000 - 3.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Curing agent**

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

SUBSTANCE NOTES: 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 SCREENING DATE: **2024-02-29 12:37:49**

%: **0.0100 - 2.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Heat or UV stabilizer**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Mult*
	EC - CEPA DSL	Persistence
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 1**      %: **0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:08**

%: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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None found		No warnings found on HPD Priority Hazard Lists
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ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
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EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions Exempted from REACH Annex IV listing due to intrinsic safety
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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: **2024-02-29 12:39:14**

%: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

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

OTHER MATERIAL NOTES: The variation in content is due to varying proportions of materials in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2024-03-01 8:27:08**%: **25.0000 - 50.0000**GreenScreen: **LT-P1**RC: **None**NANO: **No**SUBSTANCE ROLE: **Binder**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

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

**HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS**ID: **Not registered**HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2024-03-01 8:27:08**%: **25.0000 - 50.0000**GreenScreen: **NoGS**RC: **None**NANO: **No**SUBSTANCE ROLE: **Solvent**

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

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

**EVA LAMINATING FILM (ALT)**%: **0.0000 - 9.2000 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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



HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:08**

%: **98.0000 - 100.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: 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 Library** HAZARD SCREENING DATE: **2024-03-01 8:27:08**

%: **0.0000 - 1.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Initiator**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

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

**BACK-PAINTED COLORANT 20**      %: **0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:08**

%: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings 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: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2024-02-29 12:39:11**

%: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

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

**BACK-PAINTED COLORANT 19**      %: **0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:09**

#: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE LIST NAME AND SOURCE WARNINGS

None found No warnings 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: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2024-02-29 12:39:05**

#: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE LIST NAME AND SOURCE WARNINGS

None found No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION

None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES: 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 SCREENING DATE: **2024-02-29 12:39:08**

#: **10.0000 - 25.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE LIST NAME AND SOURCE WARNINGS

None found No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION

None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES: 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

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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:09**

%: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE LIST NAME AND SOURCE WARNINGS

None found No warnings 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: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2024-02-29 12:39:00**

%: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE LIST NAME AND SOURCE WARNINGS

None found No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION

None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES: 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 SCREENING DATE: **2024-02-29 12:39:03**

%: **10.0000 - 25.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE LIST NAME AND SOURCE WARNINGS

None found No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION

None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES: 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

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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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: **2024-03-01 8:27:09**

#: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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None found		No warnings found on HPD Priority Hazard Lists
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ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
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EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions  Exempted from REACH Annex IV listing due to intrinsic safety
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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: **2024-02-29 12:38:55**

#: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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None found		No warnings found on HPD Priority Hazard Lists
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ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
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None found		No listings found on Additional Hazard Lists
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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: **2024-03-01 8:27:10**

#: **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 (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Formulated Consumer Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	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**

**%: 0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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: **2024-03-01 8:27:10**

#: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings 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: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2024-02-29 12:38:50**

#: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: 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: **2024-03-01 8:27:10**

#: **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 (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Formulated Consumer Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	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**

**%: 0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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: **2024-03-01 8:27:10**

%: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings 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: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2024-02-29 12:38:45**

%: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: 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: **2024-03-01 8:27:10**

%: **10.0000 - 25.0000** GreenScreen: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

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**      %: 0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:10**

%: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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None found		No warnings found on HPD Priority Hazard Lists
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ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
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EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions  Exempted from REACH Annex IV listing due to intrinsic safety
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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: **2024-02-29 12:38:41**

%: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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None found		No warnings found on HPD Priority Hazard Lists
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ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
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None found		No listings found on Additional Hazard Lists
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SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**BACK-PAINTED COLORANT 13**      %: **0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:10**

#: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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None found		No warnings found on HPD Priority Hazard Lists
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ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
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EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions  Exempted from REACH Annex IV listing due to intrinsic safety
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SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

**UNDISCLOSED**

HAZARD DATA SOURCE: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2024-02-29 12:38:37**

#: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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None found		No warnings found on HPD Priority Hazard Lists
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ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
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None found		No listings found on Additional Hazard Lists
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SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**BACK-PAINTED COLORANT 12**      #: **0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:11**

%: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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None found		No warnings found on HPD Priority Hazard Lists
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ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
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EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions  Exempted from REACH Annex IV listing due to intrinsic safety
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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: **2024-02-29 12:38:33**

%: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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None found		No warnings found on HPD Priority Hazard Lists
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ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
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None found		No listings found on Additional Hazard Lists
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SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**BACK-PAINTED COLORANT 11**      %: **0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:11**

%: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings 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**

HAZARD DATA SOURCE: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2024-02-29 12:38:29**

%: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

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

**BACK-PAINTED COLORANT 10**      %: **0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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

**WATER**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:11**

%: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings 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: **Toxnot Chemical Hazard Screening Library**      HAZARD SCREENING DATE: **2024-02-29 12:38:24**

#: **27.0000 - 47.0000**      GreenScreen: **NoGS**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Coating**

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

SUBSTANCE NOTES: 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 SCREENING DATE: **2024-02-29 12:38:26**

#: **10.0000 - 25.0000**      GreenScreen: **NoGS**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Coating**

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

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

**BACK-PAINTED COLORANT 9**

#: **0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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: **2024-03-01 8:27:11**

#: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings 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: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2024-02-29 12:38:20**

#: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

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

**BACK-PAINTED COLORANT 8**

#: **0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:11**

%: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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None found		No warnings found on HPD Priority Hazard Lists
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ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
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EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions  Exempted from REACH Annex IV listing due to intrinsic safety
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SUBSTANCE NOTES: Exact percentage (concentration) of composition has been withheld as a trade secret.

**UNDISCLOSED**

HAZARD DATA SOURCE: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2024-02-29 12:38:16**

%: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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None found		No warnings found on HPD Priority Hazard Lists
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ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
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None found		No listings found on Additional Hazard Lists
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SUBSTANCE NOTES: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**BACK-PAINTED COLORANT 7**

%: **0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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

**WATER**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:11**

%: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings 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: <b>Toxnot Chemical Hazard Screening Library</b>		HAZARD SCREENING DATE: <b>2024-02-29 12:38:11</b>		
%: <b>27.0000 - 47.0000</b>	GreenScreen: <b>NoGS</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Coating</b>
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION		
None found		No listings found on Additional Hazard Lists		

SUBSTANCE NOTES: 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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2024-03-01 8:27:11</b>		
%: <b>10.0000 - 25.0000</b>	GreenScreen: <b>BM-1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Pigment</b>

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 (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Formulated Consumer Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	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 6**      %: 0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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: **2024-03-01 8:27:12**

%: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings 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: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2024-02-29 12:38:07**

%: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

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

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

**BACK-PAINTED COLORANT 5**      %: **0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:12**

#: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE LIST NAME AND SOURCE WARNINGS

None found No warnings 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: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2024-02-29 12:38:03**

#: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE LIST NAME AND SOURCE WARNINGS

None found No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION

None found No listings found on Additional Hazard Lists

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

BACK-PAINTED COLORANT 4 #: 0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:12**

#: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings 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: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2024-02-29 12:37:59**

#: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

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

BACK-PAINTED COLORANT 3      #: 0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:12**

#: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings 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: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2024-02-29 12:37:55**

#: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

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

**BACK-PAINTED COLORANT 2**      #: **0.0000 - 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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



HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:12**%: **30.0000 - 50.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings 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: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2024-02-29 12:37:52**%: **27.0000 - 47.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

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

**PVB LAMINATING FILM (ALT)**%: **0.0000 - 13.9000 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 in substances due to the same product being available in different sizes and options: Laminated Glass (Float, Textured and Etched) in 6mm to 24mm total glass thickness, EVA or PVB laminating film with optional back-painted or ceramic inks (digital printing).

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: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-03-01 8:27:12**%: **70.0000 - 83.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES: 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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2024-03-01 8:27:13</b>		
%: <b>17.0000 - 33.0000</b>	GreenScreen: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Plasticizer</b>
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	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List		
		Some Solvents		

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

**CALCIUM CARBONATE**

ID: 471-34-1

HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2024-03-01 8:27:12</b>		
%: <b>0.0000 - 5.0000</b>	GreenScreen: <b>BM-3</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Pigment</b>
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: Exact percentage (concentration) of composition has been withheld as a trade secret.

**TITANIUM DIOXIDE**

ID: 13463-67-7

HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2024-03-01 8:27:13</b>		
%: <b>1.0000 - 2.0000</b>	GreenScreen: <b>BM-1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Opacifier</b>

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.

## 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	ISSUE DATE: 2024-02-29 00:00:00	CERTIFIER OR LAB: None
APPLICABLE FACILITIES: All.	EXPIRY DATE:	
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES: It should be noted that glass by itself 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.

### TURNKEY™ GLASS CLADDING SYSTEM

MANUFACTURER (OR GENERIC): Bendheim LLC

HPD URL: no hpd available  
ACCESSORY TYPE: Installation Accessory  
CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: TurnKey™ is a quick-assembly interior glass cladding system, ideal for attaching glass to walls, columns, and ceilings. TurnKey is a patented, mechanical, petite clip system that does not require the use of adhesives or glass drilling. The system accepts a wide variety of glass options, including but not limited to back-painted, mirrored, etched, textured, decorative laminated, and digitally printed. It allows for floor-to-ceiling glass walls to be installed in any interior space, and the mechanical clips allow for simple replacement of glass panels at any time. Integrated LED options offer back-lighting for the glass. [https://bendheim.com/system\\_product/turnkey-fittings/](https://bendheim.com/system_product/turnkey-fittings/)

## 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.

Back-painted and digitally printed glass: One fabrication option is to back-paint the back surface of the glass. Back-painted glass most often utilizes low-iron glass for the most accurate color, and most times it is in monolithic form, though it can be laminated. Another fabrication option is digital printing ceramic inks onto the glass surface producing high-resolution graphics and images. The ceramic ink is then fused directly into the glass surface through the tempering process, creating a permanent image that never fades. Digitally printed glass is usually in monolithic form, though it can be laminated.

**MANUFACTURER INFORMATION**

MANUFACTURER: **Bendheim LLC**  
 ADDRESS: **82 Totowa Road**  
**Wayne, NJ 07470**  
 COUNTRY: **USA**

WEBSITE: **www.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**

<b>AQU</b> Aquatic toxicity	<b>LAN</b> Land toxicity	<b>PHY</b> Physical hazard (flammable or reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple	<b>RES</b> Respiratory sensitization
<b>END</b> Endocrine activity	<b>NEU</b> Neurotoxicity	<b>SKI</b> Skin sensitization/irritation/corrosivity
<b>EYE</b> Eye irritation/corrosivity	<b>NF</b> Not found on Priority Hazard Lists	<b>UNK</b> Unknown
<b>GEN</b> Gene mutation	<b>OZO</b> Ozone depletion	
<b>GLO</b> Global warming	<b>PBT</b> Persistent, bioaccumulative, and toxic	

**GreenScreen (GS)**

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1)
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-1</b> List Translator 1 (Likely Benchmark-1)
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>LT-UNK</b> List Translator Benchmark Unknown
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	<b>NoGS</b> No GreenScreen.
<b>BM-U</b> Benchmark Unspecified (due to insufficient data)	

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](http://www.greenscreenchemicals.org), and Best Practices for Hazard Screening on the HPDC website ([hpd-collaborative.org](http://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.*

