GreenScreen® Evolve™ by Mermet USA

CLASSIFICATION: 12 24 13.00 Furnishings: Roller Window Shades

PRODUCT DESCRIPTION: Sustainable window shade fabric, made from recycled water bottles. 100% PVC-free Polyester, of which up to 78% is made up of REPREVE® fibers, made from 100% post-industrial and consumer plastic waste. Product ID 3501 relates to the 1% openness fabric. Product ID 3503 relates to the 3% openness fabric. Product ID 3505 relates to the 5% openness fabric. Product ID 3510 relates to the 10% openness fabric.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format
- Nested Materials Method
- Basic Method

Threshold Disclosed Per
- Material
- Product

Threshold level
- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

Are All Substances Above the Threshold Indicated:
- Characterized (Yes No)
- Percent Weight and Role Provided?
- Screened (Yes No)
- Using Priority Hazard Lists with Results Disclosed?
- Identified (Yes No)

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.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY | GREENSCREEN SCORE | HAZARD TYPE
--- | --- | --- | --- | ---
GREENSCREEN® EVOLVE™ | POLYETHYLENE TEREPHTHALATE (PET) | LT-UNK | POLYETHYLENE TEREPTHALATE (PET) | LT-UNK
| PHOSPHORUS FR POLYURETHANE | LT-UNK | PHOSPHATE FR NoGS | UV ABSORBER LT-UNK | BENZENESULFONAMIDE, 3-NITRO-N-PHENYL-4-(PHENYLAMINO)-(COLORANT) | LT-UNK | PHOSPHATE FR NoGS |

Number of Greenscreen BM-4/BM3 contents ... 0
Contents highest concern GreenScreen Benchmark or List translator Score ... LT-UNK
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
One or more of the substances inventoried were not disclosed by name or identifier due to proprietary compositions from suppliers. Only SDS level disclosure was available.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC emissions: UL/GreenGuard Gold Certified
Other: ROHS 2-2011/65/EU Restriction of Hazardous Substances Directive Multi-attribute: Cradle to Cradle Certified - Bronze (V3.1)
Recycled content: SCS Recycled Content Certification - Products

CONSISTENCY WITH OTHER PROGRAMS
No pre-checks completed or disclosed.

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER: 
VERIFICATION #: 
SCREENING DATE: 2018-03-08
PUBLISHED DATE: 2018-04-27
EXPIRY DATE: 2021-03-08
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 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

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**GREENSCREEN® EVOLVE™**

**PRODUCT THRESHOLD:** 100 ppm

**RESIDUALS AND IMPURITIES CONSIDERED:** No

**RESIDUALS AND IMPURITIES NOTES:** No evidence of residuals and impurities was identified by any supplier or found in the manufacturing process. Therefore residuals and impurities were not considered.

**OTHER PRODUCT NOTES:** No alternate supplier or materials are applicable for this product.

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**POLYETHYLENE TEREPHTHALATE (PET) (POST-CONSUMER RECYCLED)**

**ID:** 25038-59-9

**%:** 67.0000 - 78.0000

**GS:** LT-UNK

**RC:** Both

**NANO:** No

**ROLE:** Base Fabric

**HAZARDS:**

None Found

**AGENCY(IES) WITH WARNINGS:**

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** REPREVE® SD Round Textured Polyester. REPREVE® Hybrid Polyester Yarn is made of 100% recycled polyester content with at least 35% post-consumer recycled content and at least 65% pre-consumer recycled content. REPREVE® Conforms to the SCS Recycled Content Standard V6-0. Mermet offers a range openness factors using the material covered in this HPD which leads to variation in the required percentage of this substance in the composition. The total percentage of PET in GreenScreen® Evolve™ (REPREVE® and Semi-Dull) is 97%.

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**POLYETHYLENE TEREPHTHALATE (PET)**

**ID:** 25038-59-9

**%:** 19.0000 - 30.0000

**GS:** LT-UNK

**RC:** None

**NANO:** No

**ROLE:** Base Fabric

**HAZARDS:**

None Found

**AGENCY(IES) WITH WARNINGS:**

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** Semi-Dull RD Textured Polyester/ Base Fabric. Mermet offers a range openness factors using the material covered in this HPD which leads to variation in the required percentage of this substance in the composition. The total percentage of PET in GreenScreen® Evolve™ (REPREVE® and Semi-Dull) is 97%.

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**PHOSPHORUS FR POLYURETHANE**

**ID:** Not Registered

**%:** 0.9100

**GS:** NoGS

**RC:** None

**NANO:** No

**ROLE:** Stiffening Agent

**HAZARDS:**

None Found

**AGENCY(IES) WITH WARNINGS:**

No warnings found on HPD Priority lists
**SUBSTANCE NOTES:** Stiffening agent and flame retardant. FR property comes from phosphorus containing component that was grafted onto the aliphatic polyurethane. There is no halogenated component involved. This is not a hazardous mixture.

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**UV ABSORBER**

- **ID:** 154825-62-4
- **%:** 0.8800
- **GS:** LT-UNK
- **RC:** None
- **NANO:** No
- **ROLE:** UV Absorber
- **HAZARDS:** None Found
- **AGENCY(IES) WITH WARNINGS:** No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** UV Absorber. Not a hazardous substance.

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**BENZENESULFONAMIDE, 3-NITRO-N-PHENYL-4-(PHENYLAMINO)- (COLORANT)**

- **ID:** 5124-25-4
- **%:** 0.5000
- **GS:** LT-UNK
- **RC:** None
- **NANO:** No
- **ROLE:** Colorant
- **HAZARDS:** None Found
- **AGENCY(IES) WITH WARNINGS:** No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** Various Disperse Colorants. Mermet offers a range of colors using the material covered in this HPD. CAS # 5124-25-4 is a representative substance for this range.

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**PHOSPHATE FR**

- **ID:** Undisclosed
- **%:** 0.3900
- **GS:** NoGS
- **RC:** None
- **NANO:** No
- **ROLE:** Flame Retardant
- **HAZARDS:** None Found
- **AGENCY(IES) WITH WARNINGS:** No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** Ester Based Cyclic Phosphonate. Not a hazardous mixture.
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

UL/GreenGuard Gold Certified

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<td>APPLICABLE FACILITIES:</td>
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<td>2008-06-03</td>
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<td>CERTIFIER OR LAB:</td>
<td>GreenGuard Environmental Institute</td>
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CERTIFICATION AND COMPLIANCE NOTES: GreenScreen® Evolve™ is a translucent polyester fabric offered in 1%, 3%, 5%, and 10% openness that is designed to be recyclable. Evolve contains REPREVE® fibers made from postindustrial and consumer plastic waste. Evolve has a diamond knit pattern for views, texture, and luminosity. It is offered in a 118” width, and it comes in a palette of nine colors.

OTHER

ROHS 2-2011/65/EU Restriction of Hazardous Substances Directive

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<tr>
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<td>CERTIFIER OR LAB:</td>
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MULTI-ATTRIBUTE

Cradle to Cradle Certified - Bronze (V3.1)

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<tr>
<td>CERTIFIER OR LAB:</td>
<td>McDonough Braungart Design Chemistry (MBDC)</td>
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</table>

CERTIFICATION AND COMPLIANCE NOTES: GreenScreen® Evolve™ is a translucent polyester fabric offered in 1%, 3%, 5%, and 10% openness that is designed to be recyclable. Evolve contains REPREVE® fibers made from postindustrial and consumer plastic waste. Evolve has a diamond knit pattern for views, texture, and luminosity. It is offered in a 118” width, and it comes in a palette of nine colors.

RECYCLED CONTENT

SCS Recycled Content Certification - Products

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<td>CERTIFIER OR LAB:</td>
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CERTIFICATION AND COMPLIANCE NOTES: A percentage of this fabric uses REPREVE® Hybrid Polyester yarn. REPREVE® conforms to the SCS Recycled Content Standard V7-0 for a 98% with at least 47% Post-Consumer and Balance 51% Pre-Consumer Polyester Content.

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or...
Section 5: General Notes

The PET base fabric in GreenScreen® Evolve™ contains up to 78% REPREVE® fibers made from 100% recycled post-industrial fiber and consumer plastic waste. REPREVE® Hybrid Polyester Yarn is made of 100% recycled polyester content with at least 35% post-consumer recycled content and at least 65% pre-consumer recycled content. REPREVE® Conforms to the SCS Recycled Content Standard V6-0. Health hazards and screenings completed by the HPDC Online Builder tool.
MANUFACTURER INFORMATION

MANUFACTURER: Mermet USA
ADDRESS: 5970 North Main Street
          Cowpens South Carolina 29330, United States
WEBSITE: www.mermetusa.com

CONTACT NAME: Ali Fisher
TITLE: Product Manager
PHONE: 8644635433
EMAIL: ali.fisher@mermetusa.com

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types
AQU Aquatic toxicity
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
MAM Mammalian/systemic toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
LAN Land Toxicity
NF Not found on Priority Hazard Lists

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 (insufficient data to benchmark)

BM-P1 List Translator Possible Benchmark 1
LT-1 List Translator Likely Benchmark 1
LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
NoGS Unknown (no data on List Translator Lists)

Recycled Types
PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms
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.