GreenScreen Evolve®
by Mermet Corporation

Health Product Declaration v2.2
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 21696
CLASSIFICATION: 12 24 13 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.

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
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

All Substances Above the Threshold Indicated Are:

Characterized
- Yes Ex/SC
- Yes
- No

% weight and role provided for all substances.

Screened
- Yes Ex/SC
- Yes
- No

One or more substances not screened using Priority Hazard Lists with results disclosed and/ or one or more Special Condition did not follow guidance.

Identified
- Yes Ex/SC
- Yes
- No

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

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 TEREPTHALATE (PET) (POST-CONSUMER RECYCLED) | LT-UNK POLYETHYLENE TEREPTHALATE (PET) | LT-UNK PHOSPHORUS FR POLYURETHANE No
Screened UV ABSORBER LT-UNK BENZENESULFONAMIDE, 3-NITRO-N-PHENYL-4-(PHENYLAMINO)- (COLORANT) | LT-UNK UNDISCLOSED NoGS PHOSPHONIC ACID, METHYL-, BIS[(5-ETHYL-2-METHYL-1,3,2-DIOXAPHOSPHORINAN-5-YL)METHYL] ESTER, P,P'-DIOXIDE NoGS TRIETHANOLAMINE LT-P1 | RES | END ]

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: 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

PREPARATOR: Self-Prepared
VERIFIER:
VERIFICATION #:
SCREENING DATE: 2018-03-08
PUBLISHED DATE: 2020-09-11
EXPIRY DATE: 2021-03-08
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 2.2, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-2-standard](http://www.hpd-collaborative.org/hpd-2-2-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)**

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2018-03-08

**%: 67.0000 - 78.0000**

**GS:** LT-UNK

**RC:** Both

**NANO:** No

**SUBSTANCE ROLE:** Textile component

**HAZARD TYPE** | **AGENCY AND LIST TITLES** | **WARNINGS**
---|---|---
None found | No warnings found on HPD Priority Hazard 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)**

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2018-03-08

**%: 19.0000 - 30.0000**

**GS:** LT-UNK

**RC:** None

**NANO:** No

**SUBSTANCE ROLE:** Textile component

**HAZARD TYPE** | **AGENCY AND LIST TITLES** | **WARNINGS**
---|---|---
None found | No warnings found on HPD Priority Hazard 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
<table>
<thead>
<tr>
<th>Substance Name</th>
<th>ID</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>SUBSTANCE ROLE</th>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
<th>SUBSTANCE NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
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<td></td>
</tr>
<tr>
<td>UV Absorber. Not a hazardous substance.</td>
<td>154825-62-4</td>
<td>Pharos Chemical and Materials Library</td>
<td>2018-03-08</td>
<td>0.8800</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Heat or UV stabilizer</td>
<td>None</td>
<td>None</td>
<td>No</td>
<td>UV Absorber. Not a hazardous substance.</td>
</tr>
<tr>
<td>Various Disperse Colorants. Mermet offers a range colors using the material covered in this HPD. CAS # 5124-25-4 is a representative substance for this range.</td>
<td>5124-25-4</td>
<td>Pharos Chemical and Materials Library</td>
<td>2018-03-08</td>
<td>0.5000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Dye</td>
<td>None</td>
<td>None</td>
<td>No</td>
<td>Various Disperse Colorants. Mermet offers a range colors using the material covered in this HPD. CAS # 5124-25-4 is a representative substance for this range.</td>
</tr>
<tr>
<td>Proprietary component of the Phosphate FR system. Not a hazardous mixture. Documentation deems the substance an environmentally benign phosphate flame retardant.</td>
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</tr>
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</tr>
</tbody>
</table>
### Component of the Phosphate FR system. Not a hazardous mixture. Documentation deems the substance an environmentally benign phosphate flame retardant.

### Component of the Phosphate FR system. Not a hazardous mixture. Documentation deems the substance an environmentally benign phosphate flame retardant.

### TRIETHANOLAMINE

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2018-03-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.0000 - 0.0300</td>
<td>GS: LT-P1</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>SUBSTANCE ROLE: Flame retardant</td>
</tr>
</tbody>
</table>

#### WARNINGS

<table>
<thead>
<tr>
<th>RESPIRATORY</th>
<th>AOECS - Asthmagens</th>
<th>Asthmagen (Rs) - sensitizer-induced</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
</tbody>
</table>

### SUBSTANCE NOTES: Triethanolamine is <3% of of the FR system. The FR system is not a hazardous mixture. Documentation deems the substance an environmentally benign phosphate flame retardant.
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

<table>
<thead>
<tr>
<th>Certifying Party:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable Facilities:</td>
<td>All Facilities</td>
</tr>
<tr>
<td>Issue Date:</td>
<td>2008-06-03</td>
</tr>
<tr>
<td>Expiry Date:</td>
<td>2021-05-16</td>
</tr>
<tr>
<td>Certifier or Lab:</td>
<td>GreenGuard Environmental Institute</td>
</tr>
</tbody>
</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 an 118” width, and it comes in a palette of nine colors.

### OTHER

<table>
<thead>
<tr>
<th>Certifying Party:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable Facilities:</td>
<td>All Facilities</td>
</tr>
<tr>
<td>Certificate URL:</td>
<td></td>
</tr>
<tr>
<td>Issue Date:</td>
<td>2014-08-07</td>
</tr>
<tr>
<td>Expiry Date:</td>
<td></td>
</tr>
<tr>
<td>Certifier or Lab:</td>
<td>St. Louis Testing Laboratories</td>
</tr>
</tbody>
</table>

Certification and Compliance Notes: ROHS 2-2011/65/EU Restriction of Hazardous Substances Directive

### MULTI-ATTRIBUTE

<table>
<thead>
<tr>
<th>Certifying Party:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable Facilities:</td>
<td>All Facilities</td>
</tr>
<tr>
<td>Certificate URL:</td>
<td><a href="http://www.c2ccertified.org/products/scorecard/greenscreen_revive">http://www.c2ccertified.org/products/scorecard/greenscreen_revive</a></td>
</tr>
<tr>
<td>Issue Date:</td>
<td>2018-01-30</td>
</tr>
<tr>
<td>Expiry Date:</td>
<td>2020-04-29</td>
</tr>
<tr>
<td>Certifier or Lab:</td>
<td>McDonough Braungart Design Chemistry (MBDC)</td>
</tr>
</tbody>
</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 an 118” width, and it comes in a palette of nine colors.

### RECYCLED CONTENT

<table>
<thead>
<tr>
<th>Certifying Party:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable Facilities:</td>
<td>All Facilities</td>
</tr>
<tr>
<td>Issue Date:</td>
<td>2017-09-01</td>
</tr>
<tr>
<td>Expiry Date:</td>
<td>2020-07-31</td>
</tr>
<tr>
<td>Certifier or Lab:</td>
<td>SCS Global Services</td>
</tr>
</tbody>
</table>

Certification and Compliance Notes: REPREVE® Yarn Conforms to the SCS Recycled Content Standard V7-0 for a 100% with at least 35% Post-Consumer and Balance 65% Pre-Consumer Polyester Content. Material quantification and mass-balance calculations completed on a dry-weight basis.

### OTHER

<table>
<thead>
<tr>
<th>Certifying Party:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable Facilities:</td>
<td>All Facilities</td>
</tr>
<tr>
<td>Certificate URL:</td>
<td></td>
</tr>
<tr>
<td>Issue Date:</td>
<td></td>
</tr>
<tr>
<td>Expiry Date:</td>
<td></td>
</tr>
<tr>
<td>Certifier or Lab:</td>
<td></td>
</tr>
</tbody>
</table>

Certification and Compliance Notes: SCS Certified Responsible Source
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.

No accessories are required for this product.

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 Corporation
ADDRESS: 5970 N Main Street, Cowpens South Carolina 29330, United States
WEBSITE: www.MermetUSA.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

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

GreenScreen (GS)
- BM-4 Benchmark 4 (prefer-safer chemical)
- BM-3 Benchmark 3 (use but still opportunity for improvement)
- BM-2 Benchmark 2 (use but search for safer substitutes)
- BM-1 Benchmark 1 (avoid - chemical of high concern)
- BM-U Benchmark Unspecified (due to insufficient data)
- LT-P1 List Translator Possible 1 (Possible Benchmark-1)
- LT-1 List Translator 1 (Likely Benchmark-1)
- LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
- NoGS No GreenScreen.

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.