CLASSIFICATION: 12 24 13 Furnishings: Roller Window Shades

PRODUCT DESCRIPTION: Avila Twilight™ is one of the most versatile blackout fabric collections on the market today, offering nine-room facing colors with a traditional white backing color. The fabric provides between 94% - 100% light blockage and its UV blockage is 100%. Avila Twilight is available in a width of 118 in (300 cm).

Section 1: Summary

Basic Method / Product Threshold

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

All Substances Above the Threshold Indicated Are:
- Characterized
- Screened
- Identified

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
--- | --- | --- | --- | ---
AVILA TWILIGHT™ | POLYETHYLENE TEREPTHALATE (PET) | LT-UNK | 2-
PROPENOIC ACID, 2-METHYL-, POLYMER WITH ETHYL 2-PROPENOATE AND METHYL 2-METHYL-2-PROPENOATE | LT-UNK | TITANIUM DIOXIDE
LT-1 | CAN | END | NON-SILICON MINERAL OIL | Not Screened | CARBON
BLACK | BM-1 | CAN | ALUMINA TRIHYDRATE | BM-2 | FERRIC OXIDE (OTHER PIGMENTS)
BM-3 | CAN

Number of Greenscreen BM-4/BM3 contents ... 0
Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
One or more of the substances inventoried were not disclosed by name or specific identifier due to proprietary compositions from suppliers. For one or more substances a general CAS number is used to represent the substance’s family. Otherwise, only SDS level disclosure was available.

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

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

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:
SCREENING DATE: 2018-04-11
PUBLISHED DATE: 2020-03-30
EXPIRY DATE: 2021-04-11
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 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

AVILA TWILIGHT™

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 our manufacturing process. Therefore residuals and impurities were not considered.

OTHER PRODUCT NOTES: This HPD covers a range of colors for the base fabric which leads to some variation in material composition. No alternate supplier or materials are applicable for this product.

POLYETHYLENE TEREPTHALATE (PET)

ID: 25038-59-9
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2018-04-11

%: 38.00 - 47.00
GS: LT-UNK
RC: None
NANO: No
ROLE: Basecloth

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS
None found
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is used as the basecloth of the fabric

2-PROPENOIC ACID, 2-METHYL-, POLYMER WITH ETHYL 2-PROPENOATE AND METHYL 2-METHYL-2-PROPENOATE

ID: 25133-97-5
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2018-04-11

%: 25.00 - 40.00
GS: LT-UNK
RC: None
NANO: No
ROLE: Binder

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS
None found
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Acrylic Polymer. This substance is used as a film on the basecloth.

TITANIUM DIOXIDE

ID: 13463-67-7
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2018-04-11

%: 5.00 - 20.00
GS: LT-1
RC: None
NANO: No
ROLE: Pigment

SUBSTANCE NOTES:
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This substance is a filler for the film that additionally provides opacity and coloration. The substance is bonded in the final product.

---

**NON-SILICON MINERAL OIL**

ID: Unknown

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-04-11

%: 0.05 - 0.15

GS: Not Screened

GS: BM-1

Hazard Screening not performed

**SUBSTANCE NOTES:** Substance provides processing stability. Substance is proprietary.

---

**CARBON BLACK**

ID: 1333-86-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-04-11

%: 0.00 - 2.00

GS: BM-1

RC: None

NANO: No

ROLE: Stabilizer

HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Black pigment. The substance is bonded in the final product.

---

**ALUMINA TRIHYDRATE**

ID: 21645-51-2
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2018-04-11

<table>
<thead>
<tr>
<th>%: 0.00 - 2.00</th>
<th>GS: BM-2</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Filler</th>
</tr>
</thead>
</table>

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

**SUBSTANCE NOTES:** Aluminum Hydrate filler

---

**FERRIC OXIDE (OTHER PIGMENTS)**

<table>
<thead>
<tr>
<th>ID: 1309-37-1</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>%: 0.00 - 0.50</th>
<th>GS: BM-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Pigment</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**

<table>
<thead>
<tr>
<th>CANCER</th>
<th>MAK</th>
<th>Cancer Group 3B - Evidence of carcinogenic effects but not sufficient for classification</th>
</tr>
</thead>
</table>

**SUBSTANCE NOTES:** Other pigments. The substance is bonded in the final product.
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>UL/GreenGuard Gold Certified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certifying Party</td>
<td>Third Party</td>
</tr>
<tr>
<td>Applicable Facilities</td>
<td>All Facilities</td>
</tr>
<tr>
<td>Certificate URL</td>
<td><a href="https://spot.ul.com/main-app/products/detail/5ad1e83055b0e82d946a0f0f?keywords=avila&amp;page_type=Products%20Catalog">https://spot.ul.com/main-app/products/detail/5ad1e83055b0e82d946a0f0f?keywords=avila&amp;page_type=Products%20Catalog</a></td>
</tr>
<tr>
<td>Issue Date</td>
<td>2008-01-10</td>
</tr>
<tr>
<td>Expiry Date</td>
<td>2021-02-16</td>
</tr>
<tr>
<td>Certifier or Lab</td>
<td>GreenGuard Environmental Institute</td>
</tr>
</tbody>
</table>

Certification and Compliance Notes:

OTHER

<table>
<thead>
<tr>
<th>Certifying Party</th>
<th>ROHS 2-2011/65/EU Restriction of Hazardous Substances Directive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certifying Party</td>
<td>Third Party</td>
</tr>
<tr>
<td>Applicable Facilities</td>
<td>All Facilities</td>
</tr>
<tr>
<td>Certificate URL</td>
<td></td>
</tr>
<tr>
<td>Issue Date</td>
<td>2019-04-18</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:

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

Avila Twilight is a commercial blackout fabric composed of a polyester fabric with an acrylic back-coating. Mermet offers a range of colors for the base fabric, which are covered by this HPD. 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](http://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

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

### GreenScreen (GS)

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM-4</td>
<td>Benchmark 4 (prefer-safer chemical)</td>
</tr>
<tr>
<td>BM-3</td>
<td>Benchmark 3 (use but still opportunity for improvement)</td>
</tr>
<tr>
<td>BM-2</td>
<td>Benchmark 2 (use but search for safer substitutes)</td>
</tr>
<tr>
<td>BM-1</td>
<td>Benchmark 1 (avoid - chemical of high concern)</td>
</tr>
<tr>
<td>BM-U</td>
<td>Benchmark Unspecified (insufficient data to benchmark)</td>
</tr>
<tr>
<td>LT-P1</td>
<td>List Translator Possible Benchmark 1</td>
</tr>
<tr>
<td>LT-1</td>
<td>List Translator Likely Benchmark 1</td>
</tr>
<tr>
<td>LT-UNK</td>
<td>List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)</td>
</tr>
<tr>
<td>NoGS</td>
<td>Unknown (no data on List Translator Lists)</td>
</tr>
</tbody>
</table>

### 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.