Verona Twilight™
by Mermet Corporation

HPD UNIQUE IDENTIFIER: 21703
CLASSIFICATION: 12 24 13 Roller Window Shades

PRODUCT DESCRIPTION: Verona Twilight™ is a decorative blackout fabric constructed with a horizontal, slub texture and is composed of 100% polyester and an acrylic street side backing. Verona Twilight, in combination with Verona Daylight, allows for the versatility of using both a blackout fabric that provides complete light blockage, and a privacy fabric that provides natural daylighting; while at the same time, maintaining a consistent interior appearance with matching color lines and patterns.

Section 1: Summary

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

Threshold Impurities
- Considered
- Partially Considered
- Not Considered

Residuals/Impurities

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
--- | --- | --- | --- | ---
VERONA TWILIGHT™ | POLYETHYLENE TEREPTHALATE (PET) | LT-UNK | BM-1 | PBT
ACRYLATES | NoGS | DECABROMODIPHENYLETHANE (DBDPE) | BM-1 | PBT
END ANTIMONY TRIOXIDE | BM-1 | CAN | MUL | TITANIUM DIOXIDE | LT-1 | CAN | END | DISPERSING AGENTS | Not Screened

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: 2019-03-05
PUBLISHED DATE: 2020-09-11
EXPIRY DATE: 2022-03-05
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)

### VERONA 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 the manufacturing process at a level greater than 100ppm. Therefore residuals and impurities were not considered.

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

---

### POLYETHYLENE TEREPHTHALATE (PET)

**ID:** 25038-59-9  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-03-05

<table>
<thead>
<tr>
<th>%:</th>
<th>50.0000</th>
<th>GS:</th>
<th>LT-UNK</th>
<th>RC:</th>
<th>None</th>
<th>NANO:</th>
<th>No</th>
<th>SUBSTANCE ROLE:</th>
<th>Textile component</th>
</tr>
</thead>
</table>

**HAZARD TYPE**

None found  
**AGENCY AND LIST TITLES**

**WARNINGS**

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Polyester base cloth.

---

### ACRYLATES

**ID:** Not registered  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-03-05

<table>
<thead>
<tr>
<th>%:</th>
<th>32.0000</th>
<th>GS:</th>
<th>NoGS</th>
<th>RC:</th>
<th>None</th>
<th>NANO:</th>
<th>No</th>
<th>SUBSTANCE ROLE:</th>
<th>Polymer species</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  

None found  
**AGENCY AND LIST TITLES**

**WARNINGS**

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Acrylic polymer used as the coating matrix for the fabric.

---

### DECBROMODIPHENYLETHANE (DBDPE)

**ID:** 84852-53-9  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-03-05

<table>
<thead>
<tr>
<th>%:</th>
<th>13.0000</th>
<th>GS:</th>
<th>BM-1</th>
<th>RC:</th>
<th>None</th>
<th>NANO:</th>
<th>No</th>
<th>SUBSTANCE ROLE:</th>
<th>Flame retardant</th>
</tr>
</thead>
</table>

**HAZARD TYPE**

None found  
**AGENCY AND LIST TITLES**

**WARNINGS**

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:**
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBT</td>
<td>OSPAR - Priority PBTs &amp; EDs &amp; equivalent concern</td>
<td>PBT - Chemical for Priority Action</td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>OSPAR - Priority PBTs &amp; EDs &amp; equivalent concern</td>
<td>Endocrine Disruptor - Chemical for Priority Action</td>
</tr>
<tr>
<td>PBT</td>
<td>ChemSec - SIN List</td>
<td>PBT / vPvB (Persistent, Bioaccumulative, &amp; Toxic / very Persistent &amp; very Bioaccumulative)</td>
</tr>
<tr>
<td>PBT</td>
<td>EHP - San Antonio Statement on BFRs &amp; CFRs</td>
<td>Flame retardant substance class of concern for PB&amp;T &amp; long range transport</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This Halogenated Flame Retardant is a REACH compliant component of the product's flame retardant system.

### Antimony Trioxide

**ID:** 1309-64-4

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-03-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 3.0000</td>
<td>GS: BM-1</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: Yes</td>
</tr>
<tr>
<td></td>
<td>SUBSTANCE ROLE: Flame retardant</td>
</tr>
</tbody>
</table>

**HAZARD TYPE** | **AGENCY AND LIST TITLES** | **WARNINGS**
--- | --- | ---
CANCER | IARC | Group 2b - Possibly carcinogenic to humans
CANCER | CA EPA - Prop 65 | Carcinogen
CANCER | US NIH - Report on Carcinogens | Reasonably Anticipated to be Human Carcinogen
CANCER | EU - GHS (H-Statements) | H351 - Suspected of causing cancer
MULTIPLE | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CANCER | MAK | Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER | Japan - GHS | Carcinogenicity - Category 1B

**SUBSTANCE NOTES:** The Antimony Trioxide component of the product's flame retardant system is bonded in to the coating. Any associated health risks are based on contact with the powder form during manufacture of the raw ingredient.

### Titanium Dioxide

**ID:** 13463-67-7

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-03-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 1.0000</td>
<td>GS: LT-1</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: Yes</td>
</tr>
<tr>
<td></td>
<td>SUBSTANCE ROLE: Pigment</td>
</tr>
</tbody>
</table>

Verona Twilight
hpdrepository.hpd-collaborative.org

HPD v2.2 created via HPDC Builder Page 3 of 6
<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 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value</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:** White Pigment filler used as a colorant for the fabric backing. The risk of titanium dioxide dust particle inhalation does not apply to the final product. The titanium dioxide particle size used is on the micrometric scale.

### DISPERSING AGENTS

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-03-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 1.0000</td>
<td>GS: Not Screened</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>SUBSTANCE ROLE: Coating</td>
</tr>
</tbody>
</table>

**None found**

**No warnings found on HPD Priority Hazard Lists**

**SUBSTANCE NOTES:** Dispersing agent used as an additive in the coating compound.
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**

<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="https://spot.ul.com/main-app/products/detail/5d4328bb55b0e84e40c136d7?page_type=Products%20Catalog">https://spot.ul.com/main-app/products/detail/5d4328bb55b0e84e40c136d7?page_type=Products%20Catalog</a></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2019-07-31</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>

### Other

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

<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>2019-01-10</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>

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

Verona Twilight is 100% polyester fabric with an acrylic backing. Mermet offers a range of colors for the 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

CONTACT NAME: Nathan Wintermute
TITLE: Product & Testing Engineer
PHONE: 8644635439
EMAIL: nathan.wintermute@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.