

SilverScreen 2% and 4% by Verosol™

CLASSIFICATION: 12 24 3.00 FURNISHINGS: ROLLER WINDOW SHADES
 PRODUCT DESCRIPTION: SILVERSCREEN: METALLIZED PVC-COATED GLASS FIBER SCREEN FOR ROLLER BLINDS / SHADES. VERY HIGH PERFORMANCE OF SOLAR HEAT GAIN COEFFICIENT, THERMAL INSULATION AND VIEW THROUGH THANKS TO THE REFLECTIVE ALUMINUM COATING. FLAME RETARDANT. ENVIRONMENTAL STANDARDS: GREENGUARD GOLD, ROHS2, ECOSPECIFIER.

Health Product Declaration v2.0

created via: HPDC Online Builder

Section 1: Summary

CONTENT INVENTORY

Threshold per material
 100 ppm
 1,000 ppm
 Per GHS SDS
 Per OSHA MSDS
 Other

Residuals and impurities considered in 1 of 1 materials
 see Section 2: Material Notes
 see Section 5: General Notes

Based on the selected Content Inventory Threshold:

Characterized.....	<input checked="" type="radio"/>	<input type="radio"/>
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances disclosed by Name (Specific or Generic) and Identifier?	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.

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

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE

SILVERSCREEN [PVC RELATED POLYMERS UNK GLASS FILAMENTS UNK
 1,2-BENZENEDICARBOXYLIC ACID, DINONYL ESTER, BRANCHED AND LINEAR
 LT-UNK | MUL | REP CALCIUM ZINC COMPLEX UNK ANTIMONY TRIOXIDE BM-1
 | MAM | CAN | AQU | MUL POLYURETHANE LT-UNK ALUMINUM LT-P1 | RES |
 END | PHY]

INVENTORY AND SCREENING NOTES:

Blind / Shading fabric based on a woven structure of PVC-coated glass fibers with a reflective aluminum coating. SilverScreen is REACH and RoHS2 compliant.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

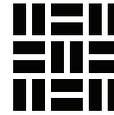
VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

VOC emissions: Greenguard and Greenguard Gold
 Formaldehyde content: Öko-Tex 100
 Other: RoHS2

See Section 3 for additional listings.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: February 8, 2017	EXPIRY DATE*: February 8, 2020
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: February 8, 2017	* or within 3 months of significant change in product contents
*See HPDC website for details			



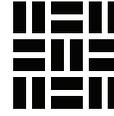
Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

SILVERSCREEN					%: 100.0000 - 100.0000					HPD URL: www.verosol.com				
Inventory Threshold: 1000 ppm Residuals Considered: Yes														
Material Notes:														
PVC RELATED POLYMERS														
ID:														
%: 40.0000 - 60.0000			GS: UNK			RC: UNK			NANO: NO			ROLE: Yarn coating		
HAZARDS:														
None Found														
AGENCY(IES) WITH WARNINGS:														
No warnings found on HPD Priority lists														
SUBSTANCE NOTES: polymer														
GLASS FILAMENTS														
ID:														
%: 30.0000 - 40.0000			GS: UNK			RC: UNK			NANO: NO			ROLE: Core of coated yarns		
HAZARDS:														
None Found														
AGENCY(IES) WITH WARNINGS:														
No warnings found on HPD Priority lists														
SUBSTANCE NOTES: Continuous filament glass fiber, diameter > 6 micron.														
1,2-BENZENEDICARBOXYLIC ACID, DINONYL ESTER, BRANCHED AND LINEAR														
ID: 68515-45-7														
%: 10.0000 - 20.0000			GS: LT-UNK			RC: None			NANO: NO			ROLE: Plasticizer		
HAZARDS:														
AGENCY(IES) WITH WARNINGS:														
RESTRICTED LIST					US EPA - PPT Chemical Action Plans					EPA Chemical of Concern - Action Plan published				
REPRODUCTIVE					US EPA - PPT Chemical Action Plans					Reproductive effects				
SUBSTANCE NOTES:														
CALCIUM ZINC COMPLEX														
ID:														

SILVERSCREEN

VEROSOL HIGH PERFORMANCE FABRICS



%: 1.0000 - 5.0000 GS: UNK RC: UNK NANO: NO ROLE: Heat stabilizer

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ANTIMONY TRIOXIDE

ID: 1309-64-4

%: 1.0000 - 5.0000 GS: BM-1 RC: None NANO: NO ROLE: Flame Retardant

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
ACUTE AQUATIC	EU - R-phrases	R51 - Toxic to Aquatic Organisms
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
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

SUBSTANCE NOTES:

POLYURETHANE

ID: 64440-88-6

%: 1.0000 - 5.0000 GS: LT-UNK RC: None NANO: NO ROLE: Finishing

HAZARDS:

AGENCY(IES) WITH WARNINGS:

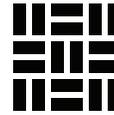
None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Polyurethane Dispersion

ALUMINUM

ID: 7429-90-5



%: 0.1000 - 0.5000	GS: LT-P1	RC: None	NANO: NO	ROLE: reflective coating
HAZARDS:		AGENCY(IES) WITH WARNINGS:		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammable solid		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases		
SUBSTANCE NOTES: High purity metallic aluminum coating applied by Physical Vapor Deposition. Adhesion according to ISO 2409 classification 0 (no detachment of coating)				

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

CERTIFYING PARTY: Third Party
 APPLICABLE FACILITIES: All
 CERTIFICATE URL:
 CERTIFICATION AND COMPLIANCE NOTES:

Greenguard and Greenguard Gold

ISSUE DATE: 2008-09-15 EXPIRY DATE: 2017-09-15 CERTIFIER OR LAB: UL Environment

FORMALDEHYDE CONTENT

CERTIFYING PARTY: Third Party
 APPLICABLE FACILITIES:
 CERTIFICATE URL:
 CERTIFICATION AND COMPLIANCE NOTES: Öko-Tex 100 is annual test which test several kind of topics like pH, formaldehyde, phenols, odour,

Öko-Tex 100

ISSUE DATE: 2016-03-23 EXPIRY DATE: 2017-03-31 CERTIFIER OR LAB: FI Höhenstein

OTHER

CERTIFYING PARTY: Self-declared
 APPLICABLE FACILITIES:
 CERTIFICATE URL:
 CERTIFICATION AND COMPLIANCE NOTES: SilverScreen is compliant to the restriction of Hazardous Substances Directive 2011/65/EU (RoHS2)

RoHS2

ISSUE DATE: 2016-03-23 EXPIRY DATE: 0000-00-00 CERTIFIER OR LAB:

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.

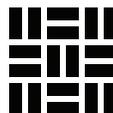
MAINTENANCE

HPD URL: No HPD link provided

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Maintenance: Dust can be removed with a soft feather duster or by vacuum-cleaning with a soft brush at lowest position. When intensive cleaning is required, the coloured side can be cleaned with a wet cloth.

 **Section 5: General Notes**

SilverScreen distinguishes itself from competitor products by having the most reflective coating in the market giving it the highest energy saving potential and visual comfort. SilverScreen meets the highest fire safety standards.



Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Verosol

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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement) BM-2 Benchmark 2 (use but search for safer substitutes)	LT-1 List Translator Likely Benchmark 1
BM-1 Benchmark 1 (avoid - chemical of high concern)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-U Benchmark Unspecified (insufficient data to benchmark)	UNK 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

Nano Composed of nanoscale particles or nanotechnology

Declaration Level

Self-declared Manufacturer's self-declaration (First Party)
Independent Lab Manufacturer's self-declaration using results from an independent lab
Second Party Verification by trade association or other interested party
Third Party Verification by independent certifier
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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.