

CLASSIFICATION: 12 24 3.00 FURNISHINGS : ROLLER WINDOW SHADES

PRODUCT DESCRIPTION: Screen 103 or is a metallized polyester screen for roller blinds / roller shades. Heat gain reduction in window systems thanks to a high reflectance of the aluminium coating. Provides heat insulation thanks to the low-E coating. Polyester based fabric with a textile look. Flame retardant. High environmental standard. Easy to handle.

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

Explanation(s) provided for Residuals/Impurities?

- Yes
- No

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
All substances screened using Priority Hazard Lists with results disclosed.

Identified Yes Ex/SC Yes No
All substances disclosed by Name (Specific or Generic) and Identifier.

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

SCREEN 103 [**POLYESTER FIBERS** NoGS **POLYURETHANE** LT-P1 **PHOSPHONIC ACID, METHYL-, BIS[(5-ETHYL-2-METHYL-1,3,2-DIOXAPHOSPHORINAN-5-YL)METHYL] ESTER, P,P'-DIOXIDE** NoGS **ALUMINUM** BM-1 | RES | PHY | END]

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:

Environmental friendly Blind / Shading fabric based on woven polyester with a reflective aluminum coating. Screen 103 is compliant to REACH, Oekotex 100 class IV, Greenguard Gold, ISO14001 and RoHS2. PVC-free, phthalate-free, halogen-free, free of bromine based and antimony trioxide based flame retardants, biocides-free.

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
Multi-attribute: REACH European Union Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals
Management: ISO 14001:2004 Environmental management systems
Multi-attribute: OEKO-TEX Standard 100

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2020-05-12

PUBLISHED DATE: 2020-05-12

EXPIRY DATE: 2023-05-12



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.hpdc-collaborative.org/hpd-2-1-1-standard

SCREEN 103

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database. This is a database of peer-reviewed scientific work. Residuals and impurities were listed at the substance level if any were noted. The noting of impurities does not conclude that they are present in the product's raw materials. The actual raw materials were not tested therefore the actual presence of impurities is unknown. They are listed in this HPD for reference only.

OTHER PRODUCT NOTES: Woven polyester fabric with aluminium coating

POLYESTER FIBERS

ID: 80595-68-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-05-12

#: 95.00 - 99.00

GS: NoGS

RC: None

NANO: No

ROLE: base fabric

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Polyester filament yarns. Residual and impurities were screened using the toxnet database (<https://toxnet.nlm.nih.gov>). None were noted.

The available data on impurities of PET are from studies using bottles and food containers made up of PET and PET copolymers. Under different experimental conditions, ethylene glycol and other monomers/processing aids have been detected. In most cases, the number of impurities detected was greatest in cases of short time exposures and the level decreased with time. Whether the impurities broke down or were reabsorbed was not addressed. Heat increases the amount of antimony (catalyst) that leaches into the contents of bottles and food packages. In all cases, the amount is small.

POLYURETHANE

ID: 64440-88-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-05-12

#: 1.00 - 5.00

GS: LT-P1

RC: None

NANO: No

ROLE: finishing

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Polyurethane Dispersion. Residual and impurities were screened using the toxnet database (<https://toxnet.nlm.nih.gov>). None were noted.

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

HAZARD SCREENING DATE: **2020-05-12**

#: **1.00 - 5.00**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Flame Retardant**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were screened using the toxnet database. None were noted.

ALUMINUM

ID: 7429-90-5

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

HAZARD SCREENING DATE: **2020-05-12**

#: **0.10 - 0.20**

GS: **BM-1**

RC: **None**

NANO: **No**

ROLE: **reflective coating**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H228 - Flammable solid

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H261 - In contact with water releases flammable gases

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: High purity metallic aluminum coating applied by Physical Vapor Deposition. This high purity aluminum is free of impurities to .01%.

Adhesion according to ISO 2409 classification 0 (no detachment of coating).

Residuals and impurities were screened using the toxnet database. All impurities are noted. Other impurities: carbides of aluminum and iron, and the nitrides of aluminum and iron

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

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2019-**

EXPIRY DATE: **2020-**

CERTIFIER OR LAB: **UL**

APPLICABLE FACILITIES: **All**

08-26

09-15

CERTIFICATE URL: <https://spot.ul.com/>

CERTIFICATION AND COMPLIANCE NOTES: **Certificate 143231-420. This certificate is annually prolonged. The expiry date is the prolongation date.**

MULTI-ATTRIBUTE

REACH European Union Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **none**

APPLICABLE FACILITIES: **all**

10-10

CERTIFICATE URL: <https://echa.europa.eu/>

CERTIFICATION AND COMPLIANCE NOTES:

MANAGEMENT

ISO 14001:2004 Environmental management systems

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2018-**

EXPIRY DATE: **2021-**

CERTIFIER OR LAB: **Tuv Rheinland**

APPLICABLE FACILITIES: **All**

02-01

02-20

CERTIFICATE URL: <https://www.tuv.com>

CERTIFICATION AND COMPLIANCE NOTES: **This certificate is annually prolonged. The expiry date is the prolongation date.**

MULTI-ATTRIBUTE

OEKO-TEX Standard 100

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2008-**

EXPIRY DATE: **2021-**

CERTIFIER OR LAB: **Hohenstein**

APPLICABLE FACILITIES: **All**

03-31

03-31

CERTIFICATE URL: <https://www.oeko-tex.com>

CERTIFICATION AND COMPLIANCE NOTES: **OEKO-TEX Standard 100 Class IV Certificate 15.HNL.57853. This certificate is annually prolonged. The expiry date is the prolongation date.**

MULTI-ATTRIBUTE

ROHS 3 2015/863 Restriction of Hazardous Substances Directive

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **none**

APPLICABLE FACILITIES: **all**

10-10

CERTIFICATE URL:

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

SCREEN 103

HPD URL: <https://verosol.com/>

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 the lowest position.

Section 5: General Notes

Screen 103 distinguishes itself from competitor products: - Easy to handle polyester fabric based screen blind - Good view through - Textile look - Free from PVC, plasticizers, halogens, biocides and toxic flame retardants. - high solar reflectance thanks to its metal coating - low-E coating as heat barrier - high energy saving potential - meets the highest fire safety standards



MANUFACTURER INFORMATION

MANUFACTURER: **Verosol**

ADDRESS: **Kieftte 18**

Eibergen Gelderland 7151HZ, The Netherlands

WEBSITE: **www.verosol.com**

CONTACT NAME: **Robert Kuipers**

TITLE: **manager R&D**

PHONE: **+31545463333**

EMAIL: **r.kuipers@verosol.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/organ 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)

LT-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.