

HPD UNIQUE IDENTIFIER: 23090

CLASSIFICATION: 12 21 00 Window Blinds

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. Remark: Screen 103 without the reflecting metal coating is named Screen 123.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

<p>Inventory Reporting Format</p> <p><input type="radio"/> Nested Materials Method</p> <p><input checked="" type="radio"/> Basic Method</p> <p>Threshold Disclosed Per</p> <p><input type="radio"/> Material</p> <p><input checked="" type="radio"/> Product</p>	<p>Threshold level</p> <p><input checked="" type="radio"/> 100 ppm</p> <p><input type="radio"/> 1,000 ppm</p> <p><input type="radio"/> Per GHS SDS</p> <p><input type="radio"/> Other</p>	<p>Residuals/Impurities</p> <p><input checked="" type="radio"/> Considered</p> <p><input type="radio"/> Partially Considered</p> <p><input type="radio"/> Not Considered</p> <p>Explanation(s) provided for Residuals/Impurities?</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>All Substances Above the Threshold Indicated Are:</i></p> <p>Characterized <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>% weight and role provided for all substances.</i></p> <p>Screened <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>All substances screened using Priority Hazard Lists with results disclosed.</i></p> <p>Identified <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>All substances disclosed by Name (Specific or Generic) and Identifier.</i></p>
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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: 2020-12-07

PUBLISHED DATE: 2020-12-07

EXPIRY DATE: 2023-12-07

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

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: **2020-12-07**

%: **95.0000 - 99.0000** GS: **NoGS** 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: 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: **2020-12-07**

%: **1.0000 - 5.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

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.

PHOSPHONIC ACID, METHYL-, BIS[(5-ETHYL-2-METHYL-1,3,2-DIOXAPHOSPHORINAN-5-YL)METHYL] ESTER, P,P'-DIOXIDE

ID: 42595-45-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-12-07**

%: **1.0000 - 5.0000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE 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: **2020-12-07**

%: **0.1000 - 0.2000** GS: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surface modifier**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air

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).

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 APPLICABLE FACILITIES: All CERTIFICATE URL: https://spot.ul.com/	ISSUE DATE: 2019-08-26	EXPIRY DATE: 2021-09-15	CERTIFIER OR LAB: UL
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 APPLICABLE FACILITIES: all CERTIFICATE URL: https://echa.europa.eu/	ISSUE DATE: 2019-10-10	EXPIRY DATE:	CERTIFIER OR LAB: none
CERTIFICATION AND COMPLIANCE NOTES:			
MANAGEMENT	ISO 14001:2004 Environmental management systems		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All CERTIFICATE URL: https://www.tuv.com	ISSUE DATE: 2018-02-01	EXPIRY DATE: 2021-02-20	CERTIFIER OR LAB: Tuv Rheinland
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 APPLICABLE FACILITIES: All CERTIFICATE URL: https://www.oeko-tex.com	ISSUE DATE: 2008-03-31	EXPIRY DATE: 2021-03-31	CERTIFIER OR LAB: Hohenstein
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 APPLICABLE FACILITIES: all CERTIFICATE URL:	ISSUE DATE: 2019-10-10	EXPIRY DATE:	CERTIFIER OR LAB: none
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.

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 bij 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 Screen 123 is Screen 103 without the reflecting metal coating.

MANUFACTURER INFORMATION

MANUFACTURER: **Verosol**
 ADDRESS: **Kiefte 18**
Eibergen Gelderland 7151HZ, The Netherlands
 WEBSITE: **www.verosol.com**

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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	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.)
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)	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.