Verosol Originals by Verosol

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 12 24 3.00 FURNISHINGS : ROLLER + PLEATED WINDOW SHADES

PRODUCT DESCRIPTION: Verosol Originals types* 812, 816, 849 and 878. Pleated blinds and roller blinds/shades out metallized polyester fabrics. Transparency ranges from non-transparent for privacy to very transparent for (one-way) view through. High reflectance of sunlight heat thanks to the aluminium metallization. Provides heat Insulation thanks to low-E coating. Environmental friendly product. Inherently flame retardant product. * Please contact Verosol for information on other Originals series types.

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

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

VEROSOL ORIGINALS [POLYESTER FIBERS NoGS
ORGANOPHOSPHOROUS FLAME RETARDANTS (OPFRS) NoGS
POLYURETHANE LT-P1 TITANIUM DIOXIDE (PRIMARY CASRN IS 13463-67-7) LT-1 | CAN | END ALUMINUM BM-1 | END | PHY | RES *ANTIMONY TRIOXIDE (PRIMARY CASRN IS 1309-64-4)* BM-1 | CAN | MUL]

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:

Blind / Shading fabric based on inherently flame retardant polyester fabric with a reflective aluminium coating. Available as pleated and roller blind / shading. Verosol Originals are compliant to; REACH, Oekotex 100 class IV, Greenguard Gold, ISO14001 and RoHS2. PVC-free, phthalate-free, halogen-free, formaldehyde-free, 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: Greenguard and Greenguard Gold
Management: ISO 14001:2004 Environmental management systems
Multi-attribute: REACH European Union Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals
Multi-attribute: Oekotex-100 Class-IV Certificate# 98.0.3658

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

VEROSOL ORIGINALS

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 fabrics with aluminum coating.
Verosol Originals Types 812, 816, 849 and 878

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: Inherently Flame Retardant Polyester yarns. Type Trevira CS www.trevira.com.
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.

ORGANOPHOSPHOROUS FLAME RETARDANTS (OPFRS)

ID: Not registered

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: Organic phosphorous compound incorporated in the polyester polymer. Type Trevira CS. Residual P-containing co-monomer approx. 100 ppm.

POLYURETHANE

ID: 64440-88-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-12**

%: **0.50 - 3.00** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **finish**

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.

TITANIUM DIOXIDE (PRIMARY CASRN IS 13463-67-7)

ID: 946525-05-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-12**

%: **0.10 - 0.50** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Delustring agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: Delustring agent, locked into the fibre polymer.

ALUMINUM

ID: 7429-90-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-12**

%: **0.10 - 0.50** GS: **BM-1** RC: **None** NANO: **No** ROLE: **reflective coating**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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)	H261 - In contact with water releases flammable gases
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: High purity metallic aluminum coating applied by Physical Vapor Deposition. Adhesion according to ISO 2409 classification 0 (no detachment of coating).

ANTIMONY TRIOXIDE (PRIMARY CASRN IS 1309-64-4)

ID: 97048-23-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-12**

%: **Impurity/Residual** GS: **BM-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

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	GHS - Japan	Carcinogenicity - Category 1B [H350]

SUBSTANCE NOTES: Residual catalyst, locked into the fibres. Concentration less than 260 ppm. Common residual in most polyester products.

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 — **Greenguard and Greenguard Gold**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: All
CERTIFICATE URL: https://www.hpd-collaborative.org/

ISSUE DATE: 2008-09-15

EXPIRY DATE: 2020-09-15

CERTIFIER OR LAB: UL Environment

CERTIFICATION AND COMPLIANCE NOTES: Certificate 85669-420 This certificate is annually prolonged. The expiry date is the prolongation date.

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 — **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:

MULTI-ATTRIBUTE — **Oekotex-100 Class-IV Certificate# 98.0.3658**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: All
CERTIFICATE URL: https://www.oeko-tex.com

ISSUE DATE: 2008-04-23

EXPIRY DATE: 2021-02-28

CERTIFIER OR LAB: Höhenstein

CERTIFICATION AND COMPLIANCE NOTES: Certificate 98.0.3658 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.

VEROSOL ORIGINALS 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

Verosol Originals are the original metallized pleated and roller blinds, free from PVC, plasticizer, halogens, antimony trioxide flame retardant and formaldehyde. Verosol Originals meet the highest fire safety standards. The reflective coating ensures energy savings and visual comfort. Different transparencies offer privacy or view through. Type Originals 890 is excluded from this HPD.

Section 6: References

MANUFACTURER INFORMATION

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

CONTACT NAME: **Robert Kuipers**
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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
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 (insuficient 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.