TEXSTYLE

Health Product

Declaration v2.3 created via: HPDC Online Builder

Mesa Light Filtering Fabric by Texstyle by Rollease Acmeda

HPD UNIQUE IDENTIFIER: 29734

CLASSIFICATION: 12 20 00 Window Treatments

PRODUCT DESCRIPTION: Mesa light filtering fabric is ideal for a variety of applications that require total light blockage and privacy. Made from 100% polyester with an acrylic foam backing, Mesa is PVC-free, offering a high-quality, soft appearance that will add beauty to a room while reducing glare and solar heat gain. Mesa can be used for an array of window coverings including Roller Shades, Roman Shades, or Panel Track systems.

Section 1: Summary

CONTENT INVENTORY

 Inventory Reporting
 Threshold Level

 Format
 © 100 ppm

 © Nested Materials Method
 © 1,000 ppm

 © Basic Method
 © Per GHS SDS

C Basic Method

Threshold Disclosed Per

- C Material
- O Product

Residuals/Impurities Evaluation Completed in 7 of 7 Materials

Explanation(s) provided for Residuals/Impurities?

Nested Method / Product Threshold

For all contents above the threshold, the n	nanufacturer has:
Characterized	O Yes O No
Provided weight and role.	
Screened	⊙ Yes ⊖ No
Provided screening results using HPDC-ap	proved
methods.	
Identified	O Yes O No
Provided name and CAS RN or other ident	tifier.

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. NESTED MATERIAL | MATERIAL OR SUBSTANCE | *RESIDUAL OR IMPURITY*

O Other

GREENSCREEN SCORE | HAZARD TYPE

PET [POLYETHYLENE TEREPHTHALATE LT-P1 | ANTIMONY TRIOXIDE BM-1 | MUL | CAN | SKI | EYE | | MAM | AQU ZINC OXIDE BM-1 | END | MUL | AQU | | MAM | REP NITROGEN NoGS MANGANESE OXIDE LT-P1 | REP | | MAM] ACRYLIC EMULSION [POLYACRYLIC ACID LT-UNK | CAN | | MAM WATER BM-4] DBDPE [DBDPE BM-1 | PBT BROMINATED DIPHENYL ETHERS LT-P1 | PBT ALUMINUM BROMIDE LT-P1 || SKI | EYE] TITANIUM DIOXIDE [RUTILE (TIO2) LT-1 | CAN | | MAM] CLAY [POTASSIUM OXIDE BM-2 | SILICON DIOXIDE BM-1 | CAN | | MAM ALUMINUM OXIDE BM-2 | | MAM TITANIUM DIOXIDE LT-1 | CAN | END | | MAM QUARTZ BM-1 | CAN | | MAM | GEN FERROUS OXIDE LT-UNK | CAN | PHOSPHORUS PENTOXIDE LT-P1 | SKI | | EYE | MAM CALCIUM OXIDE (POST-CONSUMER) BM-2 | SKI | | MAM | EYE MAGNESIUM OXIDE BM-3dg | CAN | ANATASE (TIO2) LT-1 | CAN | MAM] ANTIMONY OXIDE [ANTIMONY OXIDE (ANTIMONY TRIOXIDE) BM-1 | MUL | CAN | SKI | EYE | | MAM | AQU NICKEL (METALLIC) LT-1 | CAN | RES | MUL | MAM | | SKI | AQU LEAD BM-1 | END | PBT | REP | MUL | CAN | DEV | GEN | | MAM | AQU | SKI IRON LT-P1 | END | COPPER LT-P1 | GEN | EYE | | MAM | SKI | AQU ARSENIC, INORGANIC LT-1 | CAN | END | PBT | MUL | DEV | MAM | GEN | AQU | | REP] PIGMENT [WATER BM-4 PROPYLENE GLYCOL BM-2 END 1-HEXADECYLPYRIDINIUM CHLORIDE LT-UNK | SKI | EYE | MAM | AQU DIPROPYLENE GLYCOL METHYL ETHER LT-UNK IRON LT-P1 | END |]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT VOC Content data is not applicable for this product category. Number of Greenscreen BM-4/BM3 contents ... 3

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1, BM-1, LT-1 Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Residuals and impurities were screened using the toxnet database. This database is a general database and lists possible residuals and impurities for chemicals and substances as reported in peer-reviewed studies or other credible documentation. Just because a chemical could have the impurity listed in the database does not mean that this material contains that impurity. Actual impurities are a product of the sourced product and its suppliers. Residuals and impurities listed in the HPD are for information purposes only. and are not 100% guaranteed to be present in the fabric.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) -Classroom & Office scenario

HPD v2.3 created via HPDC Builder Page 1 of 38

Mesa Light Filtering Fabric by Texstyle







CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1. Pre-checked for LEED v4.1 Option 1.

Third Party Verified? ^O Yes [©] No PREPARER: Self-Prepared VERIFIER: VERIFICATION #: SCREENING DATE: 2022-08-26 PUBLISHED DATE: 2022-08-26 EXPIRY DATE: 2025-08-26

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 2 of 38







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 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

RODUCT THRESHOLD: 100 pp	m RESIDUALS AND IMPURITIES E	VALUATION COMPLETED: Yes	MATERIAL TYPE: Polymeric Material
RESIDUALS AND IMPURITIES N		screened using the toxnet datab	pase. Residuals and impurities listed in the
ection INVENTORY AND SCRE		o be present in the fabric. For at	dutional mormation please check the
THER MATERIAL NOTES: Pha npurity 1: Antimony trioxide :	ros database lists the following as kno	wn or request residuals:	
The prepolymer can also be for			glycol, forming methanol as a by-product reaction, and antimony (III) oxide is most
	second step reaction (Ravve, 2000; Ste		
naterials. Sb was established as wo other main catalysts for PET	Γ: germanium oxide and titanium comp	ome favorable properties, e.g. it	contaminant from PET packaging gives bright, shiny polymers. There are
ttp://www.ncbi.nlm.nih.gov/pm Antimony trioxide is the preferm	nc/articles/PMC3613973/ ed polycondensation catalyst for the p	roduction of PET."	
The Sb concentration of comm	ercialized PET resin ranges between 1		scielo.br/scielo.php?
cript=sci_arttext&pid=S0103-50 mpurity 2- Manganese oxide:	0532014000400009		
	ese are commonly added to catalyze th	e first reaction. and antimonv (III	I) oxide is most commonly used to
	on (Ravve, 2000; Stevens, 1999)." (Lithr		,,
mpurity 3- Nitrogen:			
n the DMT process, "Vapor from	n the top of the methanol column is se		
n the DMT process, "Vapor fron eturns to the methanol column,	and noncondensables are purged with		
n the DMT process, "Vapor from eturns to the methanol column, http://www.epa.gov/ttn/chief/ap	and noncondensables are purged with		
n the DMT process, "Vapor from eturns to the methanol column, tttp://www.epa.gov/ttn/chief/ap mpurity 4- Zinc oxide:	and noncondensables are purged with 042/ch06/final/c06s06-2.pdf	h nitrogen before being emitted	to the atmosphere."
n the DMT process, "Vapor from eturns to the methanol column, http://www.epa.gov/ttn/chief/ap mpurity 4- Zinc oxide: The prepolymer can also be for Scheirs and Long, 2003). Oxide:	and noncondensables are purged with 042/ch06/final/c06s06-2.pdf rmed by transesterification (B) of dimet s of e.g. zinc or manganese are commo	h nitrogen before being emitted thyl terephthalate with ethylene o only added to catalyze the first r	to the atmosphere."
n the DMT process, "Vapor from eturns to the methanol column, http://www.epa.gov/ttn/chief/ap mpurity 4- Zinc oxide: The prepolymer can also be for Scheirs and Long, 2003). Oxide:	, and noncondensables are purged with 042/ch06/final/c06s06-2.pdf rmed by transesterification (B) of dimet	h nitrogen before being emitted thyl terephthalate with ethylene o only added to catalyze the first r	to the atmosphere." glycol, forming methanol as a by-product
n the DMT process, "Vapor from eturns to the methanol column, http://www.epa.gov/ttn/chief/ap mpurity 4- Zinc oxide: The prepolymer can also be for Scheirs and Long, 2003). Oxide:	and noncondensables are purged with 042/ch06/final/c06s06-2.pdf rmed by transesterification (B) of dimet s of e.g. zinc or manganese are commo	h nitrogen before being emitted thyl terephthalate with ethylene o only added to catalyze the first r	to the atmosphere." glycol, forming methanol as a by-product
n the DMT process, "Vapor from eturns to the methanol column, http://www.epa.gov/ttn/chief/ap mpurity 4- Zinc oxide: The prepolymer can also be for Scheirs and Long, 2003). Oxide:	and noncondensables are purged with 042/ch06/final/c06s06-2.pdf rmed by transesterification (B) of dimet s of e.g. zinc or manganese are common second step reaction (Ravve, 2000; Ste	h nitrogen before being emitted thyl terephthalate with ethylene o only added to catalyze the first r	to the atmosphere." glycol, forming methanol as a by-product
n the DMT process, "Vapor from eturns to the methanol column, ittp://www.epa.gov/ttn/chief/ap mpurity 4- Zinc oxide: The prepolymer can also be for Scheirs and Long, 2003). Oxide: commonly used to catalyze the POLYETHYLENE TEREPHTH/	and noncondensables are purged with 042/ch06/final/c06s06-2.pdf rmed by transesterification (B) of dimet s of e.g. zinc or manganese are common second step reaction (Ravve, 2000; Ste	h nitrogen before being emitted thyl terephthalate with ethylene (only added to catalyze the first r evens, 1999)." (Lithner 2011)	to the atmosphere." glycol, forming methanol as a by-product reaction, and antimony (III) oxide is most ID: 25038-59-9
n the DMT process, "Vapor from eturns to the methanol column, ittp://www.epa.gov/ttn/chief/ap mpurity 4- Zinc oxide: The prepolymer can also be for Scheirs and Long, 2003). Oxide: commonly used to catalyze the POLYETHYLENE TEREPHTH/	and noncondensables are purged with 042/ch06/final/c06s06-2.pdf rmed by transesterification (B) of dimet s of e.g. zinc or manganese are common second step reaction (Ravve, 2000; Ste ALATE	h nitrogen before being emitted thyl terephthalate with ethylene (only added to catalyze the first r evens, 1999)." (Lithner 2011)	to the atmosphere." glycol, forming methanol as a by-product reaction, and antimony (III) oxide is most ID: 25038-59-9
n the DMT process, "Vapor from eturns to the methanol column, ittp://www.epa.gov/ttn/chief/ap mpurity 4- Zinc oxide: The prepolymer can also be for Scheirs and Long, 2003). Oxide: commonly used to catalyze the POLYETHYLENE TEREPHTH/ HAZARD DATA SOURCE: Ph	and noncondensables are purged with 042/ch06/final/c06s06-2.pdf rmed by transesterification (B) of dimet s of e.g. zinc or manganese are comm second step reaction (Ravve, 2000; Ste ALATE aros Chemical and Materials Library	h nitrogen before being emitted thyl terephthalate with ethylene (only added to catalyze the first r evens, 1999)." (Lithner 2011) HAZARD SCREENING DATE:	2022-08-26 11:34:18
n the DMT process, "Vapor fron eturns to the methanol column, ittp://www.epa.gov/ttn/chief/ap mpurity 4- Zinc oxide: The prepolymer can also be for Scheirs and Long, 2003). Oxide: commonly used to catalyze the POLYETHYLENE TEREPHTH/ HAZARD DATA SOURCE: Ph: %: 45.0000 - 55.0000	and noncondensables are purged with 042/ch06/final/c06s06-2.pdf rmed by transesterification (B) of dimet s of e.g. zinc or manganese are comm second step reaction (Ravve, 2000; Ste ALATE aros Chemical and Materials Library GreenScreen: LT-P1	h nitrogen before being emitted thyl terephthalate with ethylene (only added to catalyze the first r evens, 1999)." (Lithner 2011) HAZARD SCREENING DATE: RC: UNK NANO: No	ID: 25038-59-9 2022-08-26 11:34:18
n the DMT process, "Vapor fron eturns to the methanol column, ittp://www.epa.gov/ttn/chief/ap mpurity 4- Zinc oxide: The prepolymer can also be for Scheirs and Long, 2003). Oxide: commonly used to catalyze the POLYETHYLENE TEREPHTH/ HAZARD DATA SOURCE: Ph: %: 45.0000 - 55.0000	and noncondensables are purged with 042/ch06/final/c06s06-2.pdf rmed by transesterification (B) of dimet s of e.g. zinc or manganese are common second step reaction (Ravve, 2000; Ste ALATE aros Chemical and Materials Library GreenScreen: LT-P1 AGENCY AND LIST TITLES	h nitrogen before being emitted thyl terephthalate with ethylene g only added to catalyze the first r evens, 1999)." (Lithner 2011) HAZARD SCREENING DATE: RC: UNK NANO: No WARNINGS	glycol, forming methanol as a by-product reaction, and antimony (III) oxide is most ID: 25038-59-9 2022-08-26 11:34:18
n the DMT process, "Vapor fron eturns to the methanol column, ttp://www.epa.gov/ttn/chief/ap mpurity 4- Zinc oxide: The prepolymer can also be for Scheirs and Long, 2003). Oxide: commonly used to catalyze the POLYETHYLENE TEREPHTH/ HAZARD DATA SOURCE: Ph: %: 45.0000 - 55.0000 HAZARD TYPE	and noncondensables are purged with 042/ch06/final/c06s06-2.pdf rmed by transesterification (B) of dimet s of e.g. zinc or manganese are commu- second step reaction (Ravve, 2000; Ste ALATE aros Chemical and Materials Library GreenScreen: LT-P1 AGENCY AND LIST TITLES EC - CEPA DSL	h nitrogen before being emitted thyl terephthalate with ethylene of only added to catalyze the first revens, 1999)." (Lithner 2011) HAZARD SCREENING DATE: RC: UNK NANO: No WARNINGS Persistent NOTIFICATION	to the atmosphere." glycol, forming methanol as a by-product reaction, and antimony (III) oxide is most ID: 25038-59-9 2022-08-26 11:34:18
ADDITIONAL LISTINGS	and noncondensables are purged with 042/ch06/final/c06s06-2.pdf rmed by transesterification (B) of dimet s of e.g. zinc or manganese are commu- second step reaction (Ravve, 2000; Ste ALATE aros Chemical and Materials Library GreenScreen: LT-P1 AGENCY AND LIST TITLES EC - CEPA DSL	h nitrogen before being emitted thyl terephthalate with ethylene of only added to catalyze the first revens, 1999)." (Lithner 2011) HAZARD SCREENING DATE: RC: UNK NANO: No WARNINGS Persistent NOTIFICATION	to the atmosphere." glycol, forming methanol as a by-product reaction, and antimony (III) oxide is most ID: 25038-59-9 2022-08-26 11:34:18 SUBSTANCE ROLE: Polymer species
ADDITIONAL LISTINGS	and noncondensables are purged with 042/ch06/final/c06s06-2.pdf rmed by transesterification (B) of dimet s of e.g. zinc or manganese are commu- second step reaction (Ravve, 2000; Ste ALATE aros Chemical and Materials Library GreenScreen: LT-P1 AGENCY AND LIST TITLES EC - CEPA DSL	h nitrogen before being emitted thyl terephthalate with ethylene of only added to catalyze the first revens, 1999)." (Lithner 2011) HAZARD SCREENING DATE: RC: UNK NANO: No WARNINGS Persistent NOTIFICATION	to the atmosphere." glycol, forming methanol as a by-product reaction, and antimony (III) oxide is most ID: 25038-59-9 2022-08-26 11:34:18 SUBSTANCE ROLE: Polymer species
ADDITIONAL LISTINGS	and noncondensables are purged with 042/ch06/final/c06s06-2.pdf rmed by transesterification (B) of dimet s of e.g. zinc or manganese are commu- second step reaction (Ravve, 2000; Ste ALATE aros Chemical and Materials Library GreenScreen: LT-P1 AGENCY AND LIST TITLES EC - CEPA DSL	h nitrogen before being emitted thyl terephthalate with ethylene of only added to catalyze the first revens, 1999)." (Lithner 2011) HAZARD SCREENING DATE: RC: UNK NANO: No WARNINGS Persistent NOTIFICATION	to the atmosphere." glycol, forming methanol as a by-product reaction, and antimony (III) oxide is most ID: 25038-59-6 2022-08-26 11:34:18 SUBSTANCE ROLE: Polymer species

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 3 of 38





SUBSTANCE NOTES: Residuals and impurities were screened using the toxnet database. Residuals and impurities listed in the HPD are for information purposes only and are not 100% guaranteed to be present in the fabric. For additional information please check the section INVENTORY AND SCREENING NOTES. Pharos database lists the following as known or request residuals: Impurity 1: Antimony trioxide : "The prepolymer can also be formed by transesterification (B) of dimethyl terephthalate with ethylene glycol, forming methanol as a byproduct (Scheirs and Long, 2003). Oxides of e.g. zinc or manganese are commonly added to catalyze the first reaction, and antimony (III) oxide is most commonly used to catalyze the second step reaction (Ravve, 2000; Stevens, 1999)." (Lithner 2011) "Residual molecular antimony (Sb) catalyst materials can migrate into food or water and be a potential contaminant from PET packaging materials. Sb was established as a catalyst of choice because it has some favorable properties, e.g. it gives bright, shiny polymers. There are two other main catalysts for PET: germanium oxide and titanium compounds (Thiele 2001)." http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3613973/ "Antimony trioxide is the preferred polycondensation catalyst for the production of PET." "The Sb concentration of commercialized PET resin ranges between 190 and 300 µg g-1." http://www.scielo.br/scielo.php? script=sci_arttext&pid=S0103-50532014000400009 Impurity 2- Manganese oxide: "Oxides of e.g. zinc or manganese are commonly added to catalyze the first reaction, and antimony (III) oxide is most commonly used to catalyze the second step reaction (Ravve, 2000; Stevens, 1999)." (Lithner 2011) Impurity 3- Nitrogen: In the DMT process, "Vapor from the top of the methanol column is sent to a cold water (or refrigerated) condenser, where the condensate returns to the methanol column, and noncondensables are purged with nitrogen before being emitted to the atmosphere." http://www.epa.gov/ttn/chief/ap42/ch06/final/c06s06-2.pdf Impurity 4- Zinc oxide: "The prepolymer can also be formed by transesterification (B) of dimethyl terephthalate with ethylene glycol, forming methanol as a byproduct (Scheirs and Long, 2003). Oxides of e.g. zinc or manganese are commonly added to catalyze the first reaction, and antimony (III) oxide is most commonly used to catalyze the second step reaction (Ravve, 2000; Stevens, 1999)." (Lithner 2011) ANTIMONY TRIOXIDE ID: 1309-64-4 HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-08-26 11:34:28 %: Impurity/Residual GreenScreen: BM-1 RC: UNK NANO: Unknown SUBSTANCE ROLE: Impurity/Residual

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 4 of 38





HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CAN	CA EPA - Prop 65	Carcinogen
CAN	IARC	Group 2b - Possibly carcinogenic to humans
CAN	МАК	Carcinogen Group 2 - Considered to be carcinogenic for man
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1B]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
SKI	GHS - New Zealand	Skin irritation category 2
EYE	GHS - New Zealand	Eye irritation category 2
	EC - CEPA DSL	Persistent
CAN	GHS - New Zealand	Carcinogenicity category 2
МАМ	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
МАМ	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1
CAN	EU - Annex VI CMRs	Carcinogen Category 2 - Suspected human Carcinogen
МАМ	GHS - Japan	H371 - May cause damage to organs [Specific target organs/systemic toxicity following single exposure - Category 2]
SKI	GHS - Korea	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1]
AQU	GHS - Korea	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
CAN	GHS - Australia	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
CAN	GHS - Korea	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 5 of 38





RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List
		Precautionary list of substances recommended for avoidance
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)	ration C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)	ration C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)	vation C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Cosmetics & Personal Care Products
•	.gov/pmc/articles/PMC3613973/	e production of PET."
"Antimony trioxide is the "The Sb concentration o	preferred polycondensation catalyst for th	e production of PET." n 190 and 300 μg g-1." http://www.scielo.br/scielo.php?
"Antimony trioxide is the "The Sb concentration o script=sci_arttext&pid=S	preferred polycondensation catalyst for th f commercialized PET resin ranges betwee 0103-50532014000400009	n 190 and 300 µg g-1." http://www.scielo.br/scielo.php? ID: 1314-1:
"Antimony trioxide is the "The Sb concentration o script=sci_arttext&pid=S	preferred polycondensation catalyst for th f commercialized PET resin ranges betwee 0103-50532014000400009	n 190 and 300 µg g-1." http://www.scielo.br/scielo.php?

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 6 of 38





END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to	Class 2 - Hazard to Waters
AQU	Waters EU - GHS (H-Statements) Annex 6 Table 3-1	H400 - Very toxic to aquatic life [Hazardous to the
	LO - GIIS (IPStatements) Annex O Table 5-1	aquatic environment (acute) - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H410 - Very toxic to aquatic life with long lasting effec [Hazardous to the aquatic environment (chronic) - Category 1]
	EC - CEPA DSL	Persistent
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute categor 1
AQU	GHS - Japan	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	GHS - Japan	H410 - Very toxic to aquatic life with long lasting effec [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - Australia	H410 - Very toxic to aquatic life with long lasting effec [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 1
REP	GHS - Japan	H361 - Suspected of damaging fertility or the unborn child [Toxic to reproduction - Category 2]
AQU	GHS - Malaysia	H410 - Very toxic to aquatic life with long lasting effec [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - Malaysia	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
ADDITIONAL LISTINGS	AGENCY	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
methanol as a by-product (Se	cheirs and Long, 2003). Oxides of e.g. zinc or many	n (B) of dimethyl terephthalate with ethylene glycol, formi janese are commonly added to catalyze the first reaction action (Ravve, 2000; Stevens, 1999)." (Lithner 2011)

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 7 of 38





ID: 7727-37-9

NITROGEN

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SC	REENING DATE:	2022-08-26 11:34:31
%: Impurity/Residual	GreenScreen: NoGS	RC: UNK	NANO: Unknown	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warr	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	
EXEMPT	European Union / European Con (EU EC)	nmission	EU - REACH Exe	emptions
	()		Exempted from I safety	REACH Annex IV listing due to intrinsic
POSITIVE LIST	US Environmental Protection Ag EPA)	jency (US	US EPA - DfE SC	CIL
			Green Circle - Ve	erified Low Concern

SUBSTANCE NOTES: In the DMT process, "Vapor from the top of the methanol column is sent to a cold water (or refrigerated) condenser, where the condensate returns to the methanol column, and noncondensables are purged with nitrogen before being emitted to the atmosphere."

http://www.epa.gov/ttn/chief/ap42/ch06/final/c06s06-2.pdf

MANGANESE OXIDE

ID: 1317-34-6

HAZARD DATA SOURCE: F	Pharos Chemical and Materials Library	HAZARD SCR	EENING DATE:	2022-08-26 11:34:31
%: Impurity/Residual	GreenScreen: LT-P1	RC: UNK NA	ANO: Unknown	SUBSTANCE ROLE: Impurity/Residua
HAZARD TYPE	AGENCY AND LIST TITLES	V	WARNINGS	
REP	GHS - Japan		H360 - May dam reproduction - C	age fertility or the unborn child [Toxic to ategory 1B]
	EC - CEPA DSL	F	Persistent	
МАМ	GHS - Japan	r	repeated exposu	lamage to organs through prolonged or ure [Specific target organs/systemic g repeated exposure - Category 1]
MAM	GHS - Australia	r	repeated exposu	lamage to organs through prolonged or ure [Specific target organ toxicity - ure - Category 1]
МАМ	GHS - Japan	c		lamage to organs [Specific target toxicity following single exposure -
ADDITIONAL LISTINGS	AGENCY	٢	NOTIFICATION	
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)			Product Standard Restricted (RSL) - Effective July 1, 2022
		E	Biological and E	nvironmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)			Product Standard Restricted (RSL) - Effective July 1, 2022
			Children's Produ	

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 8 of 38







SUBSTANCE NOTES: "Oxides of e.g. zinc or manganese are commonly added to catalyze the first reaction, and antimony (III) oxide is most commonly used to catalyze the second step reaction (Ravve, 2000; Stevens, 1999)." (Lithner 2011)

ACRYLIC EMULSION

%: 20.0000 - 30.0000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database. Residuals and impurities listed in the HPD are for information purposes only and are not 100% guaranteed to be present in the fabric. For additional information please check the section INVENTORY AND SCREENING NOTES. None Noted

OTHER MATERIAL NOTES:

	Pharos Chemical and Materials Library	HAZARD S	CREENING DATE:	2022-08-26 11:34:22
%: 10.0000 - 15.0000	GreenScreen: LT-UNK	RC: UNK	NANO: No	SUBSTANCE ROLE: Binder
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CAN	МАК		Carcinogen Grou low risk under M	up 4 - Non-genotoxic carcinogen with IAK/BAT levels
	EC - CEPA DSL		Persistent	
МАМ	GHS - Japan		repeated exposu	lamage to organs through prolonged or ure [Specific target organs/systemic g repeated exposure - Category 1]
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	
RESTRICTED LIST	Perkins+Will (P+W)		P&W - Precautio	onary List
			Watch List	
POSITIVE LIST	US Environmental Protection Ag EPA)	ency (US	US EPA - DfE SC	CIL
			Groop Cirolo	erified Low Concern
		a the terr - t		
			database. Residua	Is and impurities listed in the HPD are f
information purposes on INVENTORY AND SCREE No known residuals or in	ly and are not 100% guaranteed to be pres ENING NOTES.	ent in the fa	database. Residua bric. For additional	Is and impurities listed in the HPD are f information please check the section ID: 7732-18
information purposes on INVENTORY AND SCREE No known residuals or in	ly and are not 100% guaranteed to be pres ENING NOTES. npurities.	ent in the fa	database. Residua bric. For additional	Is and impurities listed in the HPD are f information please check the section ID: 7732-18
information purposes on INVENTORY AND SCREE No known residuals or in VATER IAZARD DATA SOURCE: 6: 10.0000 - 15.0000	ly and are not 100% guaranteed to be pres ENING NOTES. npurities. Pharos Chemical and Materials Library	HAZARD S	database. Residua bric. For additional	Is and impurities listed in the HPD are f information please check the section ID: 7732-18 2022-08-26 11:34:22
information purposes on INVENTORY AND SCREE No known residuals or in ATER AZARD DATA SOURCE: 5: 10.0000 - 15.0000 HAZARD TYPE	ly and are not 100% guaranteed to be pres ENING NOTES. npurities. Pharos Chemical and Materials Library GreenScreen: BM-4	HAZARD S	database. Residua bric. For additional CREENING DATE: NANO: No WARNINGS	Is and impurities listed in the HPD are f information please check the section ID: 7732-18 2022-08-26 11:34:22
information purposes on INVENTORY AND SCREE No known residuals or in VATER	ly and are not 100% guaranteed to be pres ENING NOTES. npurities. Pharos Chemical and Materials Library GreenScreen: BM-4	HAZARD S	database. Residua bric. For additional CREENING DATE: NANO: No WARNINGS	Is and impurities listed in the HPD are f information please check the section ID: 7732-18 2022-08-26 11:34:22 SUBSTANCE ROLE: Solvent

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 9 of 38





ADDITIONAL LISTINGS	AGENCY		NOTIFICATION		
EXEMPT	European Union / European Com (EU EC)		EU - REACH Exer		sting due to intrinsi
		5	safety		-
POSITIVE LIST	US Environmental Protection Age EPA)	ency (US	JS EPA - DfE SCI	L	
		(Green Circle - Ver	ified Low Concern	n
SUBSTANCE NOTES: No	hnown residuals and impurities.				
BDPE	%: 6.0000 - 14.0000				
RODUCT THRESHOLD: 10	0 ppm RESIDUALS AND IMPURITIES EV	VALUATION CO	MPLETED: Yes	MATERIAL TY	PE: Polymeric Mate
	ES NOTES: Residuals and impurities were s poses only and are not 100% guaranteed to CREENING NOTES.	-			•
ecause this chemical is bo ecabromobiphenyl ether. Decabromobiphenyl ether sed to obtain high convers Ilmann's Encyclopedia of I	eerfield Beach, FL: VCH Publishers, 1985 to th a strong Lewis acid and a bromine source is manufactured by the exhaustive bromina ions of the less reactive under-brominated ndustrial Chemistry. 5th ed.Vol A1: Deerfiel	ce, it is likely on ation of phenyl e intermediates t	e of the more cor ther. Lewis acid o o decabromobiph	nmon catalysts us catalysis and an e nenyl ether. [Gerha	excess of bromine a artz, W. (exec ed.).
ecause this chemical is bo ecabromobiphenyl ether. Decabromobiphenyl ether sed to obtain high convers	th a strong Lewis acid and a bromine sources is manufactured by the exhaustive bromina ions of the less reactive under-brominated	o Present., p. VA ce, it is likely on ation of phenyl e intermediates t	e of the more cor ther. Lewis acid o o decabromobiph	nmon catalysts us catalysis and an e nenyl ether. [Gerha	excess of bromine a artz, W. (exec ed.).
Decause this chemical is bo ecabromobiphenyl ether. Decabromobiphenyl ether sed to obtain high convers Illmann's Encyclopedia of l olding mine)	th a strong Lewis acid and a bromine sources is manufactured by the exhaustive bromina ions of the less reactive under-brominated	o Present., p. VA ce, it is likely on ation of phenyl e intermediates t Id Beach, FL: VG	e of the more cor ther. Lewis acid d o decabromobipf CH Publishers, 19	nmon catalysts us catalysis and an e tenyl ether. [Gerh 85 to Present., p.	excess of bromine a artz, W. (exec ed.). VA4 (85) 417]" (HS ID: 84852-1
Decause this chemical is bo ecabromobiphenyl ether. Decabromobiphenyl ether sed to obtain high convers Illmann's Encyclopedia of l olding mine)	th a strong Lewis acid and a bromine source is manufactured by the exhaustive bromina ions of the less reactive under-brominated ndustrial Chemistry. 5th ed.Vol A1: Deerfiel	o Present., p. VA ce, it is likely on ation of phenyl e intermediates t Id Beach, FL: VG	e of the more cor ther. Lewis acid d o decabromobipf CH Publishers, 19	nmon catalysts us catalysis and an e nenyl ether. [Gerha 85 to Present., p. 2022-08-26 11:34	excess of bromine a artz, W. (exec ed.). VA4 (85) 417]" (HS ID: 84852-1
Accause this chemical is bo ecabromobiphenyl ether. Decabromobiphenyl ether sed to obtain high convers Illmann's Encyclopedia of I olding mine) DEDPE HAZARD DATA SOURCE:	th a strong Lewis acid and a bromine source is manufactured by the exhaustive bromina ions of the less reactive under-brominated ndustrial Chemistry. 5th ed.Vol A1: Deerfiel Pharos Chemical and Materials Library	A Present., p. VA ce, it is likely on ation of phenyl e intermediates t Id Beach, FL: VC HAZARD SCR RC: UNK	e of the more con ther. Lewis acid o decabromobiph CH Publishers, 19 EENING DATE:	nmon catalysts us catalysis and an e nenyl ether. [Gerha 85 to Present., p. 2022-08-26 11:34	excess of bromine a artz, W. (exec ed.). VA4 (85) 417]" (HS ID: 84852-1
Accause this chemical is bo ecabromobiphenyl ether. Decabromobiphenyl ether sed to obtain high convers Illmann's Encyclopedia of I olding mine) DEDPE HAZARD DATA SOURCE: %: 6.0000 - 14.0000	th a strong Lewis acid and a bromine source is manufactured by the exhaustive bromina ions of the less reactive under-brominated industrial Chemistry. 5th ed.Vol A1: Deerfiel Pharos Chemical and Materials Library GreenScreen: BM-1	A Present., p. VA ce, it is likely on ation of phenyl e intermediates t Id Beach, FL: VC HAZARD SCR RC: UNK	e of the more con ther. Lewis acid d o decabromobiph CH Publishers, 19 EEENING DATE: 2 NANO: No	nmon catalysts us catalysis and an e henyl ether. [Gerha 85 to Present., p. 2022-08-26 11:34 SUBSTANCE RO	excess of bromine a artz, W. (exec ed.). VA4 (85) 417]" (HS ID: 84852-1
Accause this chemical is bo ecabromobiphenyl ether. Decabromobiphenyl ether sed to obtain high convers Illmann's Encyclopedia of I olding mine) DBDPE HAZARD DATA SOURCE: %: 6.0000 - 14.0000 HAZARD TYPE	th a strong Lewis acid and a bromine source is manufactured by the exhaustive bromina ions of the less reactive under-brominated industrial Chemistry. 5th ed.Vol A1: Deerfiel Pharos Chemical and Materials Library GreenScreen: BM-1 AGENCY AND LIST TITLES OSPAR - Priority PBTs & EDs & co	A Present., p. VA ce, it is likely on ation of phenyl e intermediates t Id Beach, FL: VC HAZARD SCR RC: UNK	e of the more con ther. Lewis acid o o decabromobiph CH Publishers, 19 EEENING DATE: NANO: No WARNINGS PBT - Chemical for PBT / vPvB (Persi	nmon catalysts us catalysis and an e henyl ether. [Gerh: 85 to Present., p. 2022-08-26 11:34 SUBSTANCE RO	excess of bromine a artz, W. (exec ed.). VA4 (85) 417]" (HS ID: 84852-1
Accause this chemical is bo ecabromobiphenyl ether. Decabromobiphenyl ether sed to obtain high convers Illmann's Encyclopedia of I olding mine) DBDPE HAZARD DATA SOURCE: %: 6.0000 - 14.0000 HAZARD TYPE PBT	th a strong Lewis acid and a bromine source is manufactured by the exhaustive bromina ions of the less reactive under-brominated industrial Chemistry. 5th ed.Vol A1: Deerfiel Pharos Chemical and Materials Library GreenScreen: BM-1 AGENCY AND LIST TITLES OSPAR - Priority PBTs & EDs & e concern	A Present., p. VA ce, it is likely on ation of phenyl e intermediates t Id Beach, FL: VC HAZARD SCR RC: UNK	e of the more con ther. Lewis acid o o decabromobiph CH Publishers, 19 EEENING DATE: NANO: No WARNINGS PBT - Chemical for PBT / vPvB (Persi	nmon catalysts us catalysis and an e henyl ether. [Gerh: 85 to Present., p. 2022-08-26 11:34 SUBSTANCE RO or Priority Action stent, Bioaccumu	excess of bromine a artz, W. (exec ed.). VA4 (85) 417]" (HS ID: 84852-4 :23 LE: Flame retardar
Accause this chemical is bo ecabromobiphenyl ether. Decabromobiphenyl ether sed to obtain high convers Illmann's Encyclopedia of I olding mine) DBDPE HAZARD DATA SOURCE: %: 6.0000 - 14.0000 HAZARD TYPE PBT	th a strong Lewis acid and a bromine source is manufactured by the exhaustive bromina ions of the less reactive under-brominated industrial Chemistry. 5th ed.Vol A1: Deerfiel Pharos Chemical and Materials Library GreenScreen: BM-1 AGENCY AND LIST TITLES OSPAR - Priority PBTs & EDs & e concern	A Present., p. VA ce, it is likely on ation of phenyl e intermediates t Id Beach, FL: VC HAZARD SCR RC: UNK	e of the more con ther. Lewis acid o o decabromobiph CH Publishers, 19 EEENING DATE: NANO: No WARNINGS PBT - Chemical for PBT / vPvB (Persi	nmon catalysts us catalysis and an e henyl ether. [Gerh: 85 to Present., p. 2022-08-26 11:34 SUBSTANCE RO or Priority Action stent, Bioaccumu	excess of bromine a artz, W. (exec ed.). VA4 (85) 417]" (HS ID: 84852-4 :23 LE: Flame retardar
Accause this chemical is bo ecabromobiphenyl ether. Decabromobiphenyl ether sed to obtain high convers Illmann's Encyclopedia of I olding mine) DBDPE HAZARD DATA SOURCE: %: 6.0000 - 14.0000 HAZARD TYPE PBT	th a strong Lewis acid and a bromine source is manufactured by the exhaustive bromina ions of the less reactive under-brominated industrial Chemistry. 5th ed.Vol A1: Deerfiel Pharos Chemical and Materials Library GreenScreen: BM-1 AGENCY AND LIST TITLES OSPAR - Priority PBTs & EDs & e concern	A Present., p. VA ce, it is likely on ation of phenyl e intermediates t Id Beach, FL: VC HAZARD SCR RC: UNK	e of the more con ther. Lewis acid o o decabromobiph CH Publishers, 19 EEENING DATE: NANO: No WARNINGS PBT - Chemical for PBT / vPvB (Persi	nmon catalysts us catalysis and an e henyl ether. [Gerh: 85 to Present., p. 2022-08-26 11:34 SUBSTANCE RO or Priority Action stent, Bioaccumu	excess of bromine a artz, W. (exec ed.). VA4 (85) 417]" (HS ID: 84852-4 :23 LE: Flame retardar
Accause this chemical is bo ecabromobiphenyl ether. Decabromobiphenyl ether sed to obtain high convers Illmann's Encyclopedia of I olding mine) DBDPE HAZARD DATA SOURCE: %: 6.0000 - 14.0000 HAZARD TYPE PBT	th a strong Lewis acid and a bromine source is manufactured by the exhaustive bromina ions of the less reactive under-brominated industrial Chemistry. 5th ed.Vol A1: Deerfiel Pharos Chemical and Materials Library GreenScreen: BM-1 AGENCY AND LIST TITLES OSPAR - Priority PBTs & EDs & e concern	A Present., p. VA ce, it is likely on ation of phenyl e intermediates t Id Beach, FL: VC HAZARD SCR RC: UNK	e of the more con ther. Lewis acid o o decabromobiph CH Publishers, 19 EEENING DATE: NANO: No WARNINGS PBT - Chemical for PBT / vPvB (Persi	nmon catalysts us catalysis and an e henyl ether. [Gerh: 85 to Present., p. 2022-08-26 11:34 SUBSTANCE RO or Priority Action stent, Bioaccumu	excess of bromine a artz, W. (exec ed.). VA4 (85) 417]" (HS ID: 84852-4 :23 LE: Flame retardar

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 10 of 38





RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautio	onary List
		Precautionary lis avoidance	st of substances recommended for
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)		Product Standard Restricted (RSL) - Effective July 1, 2022
		Core Restriction	IS
RESTRICTED LIST	International Living Future Institu	ute (ILFI) Living Building C Chemicals	Challenge 4.0 - Red List of Materials &
		Red List substar Challenge V4.0 p	nces to avoid in Living Building projects
RESTRICTED LIST	International Living Future Institu	ute (ILFI) Living Building (Chemicals	Challenge 4.0 - Red List of Materials &
		Priority for Inclu Red List	sion in the Living Building Challenge
Because this chemical is decabromobiphenyl ethe "Decabromobiphenyl eth are used to obtain high c	ed.Vol A1: Deerfield Beach, FL: VCH Publis both a strong Lewis acid and a bromine so r. er is manufactured by the exhaustive brom onversions of the less reactive under-brom edia of Industrial Chemistry. 5th ed.Vol A1:	ource, it is likely one of the mor nination of phenyl ether. Lewis a ninated intermediates to decabi	e common catalysts used to produce acid catalysis and an excess of bromine romobiphenyl ether. [Gerhartz, W. (exec
Because this chemical is decabromobiphenyl ethe "Decabromobiphenyl eth are used to obtain high c ed.). Ullmann's Encyclope (HSDB, bolding mine)	both a strong Lewis acid and a bromine se r. er is manufactured by the exhaustive brom onversions of the less reactive under-brom edia of Industrial Chemistry. 5th ed.Vol A1:	ource, it is likely one of the mor nination of phenyl ether. Lewis a ninated intermediates to decabi	(85) 417]" (HSDB) e common catalysts used to produce acid catalysis and an excess of bromine romobiphenyl ether. [Gerhartz, W. (exec
Because this chemical is decabromobiphenyl ethe "Decabromobiphenyl eth are used to obtain high c ed.). Ullmann's Encyclope (HSDB, bolding mine)	both a strong Lewis acid and a bromine se r. er is manufactured by the exhaustive brom onversions of the less reactive under-brom edia of Industrial Chemistry. 5th ed.Vol A1:	ource, it is likely one of the mor nination of phenyl ether. Lewis a ninated intermediates to decabi : Deerfield Beach, FL: VCH Publ	(85) 417]" (HSDB) e common catalysts used to produce acid catalysis and an excess of bromine romobiphenyl ether. [Gerhartz, W. (exec lishers, 1985 to Present., p. VA4 (85) 417 ID: 90193-67
Because this chemical is decabromobiphenyl ethe "Decabromobiphenyl eth are used to obtain high c ed.). Ullmann's Encyclope (HSDB, bolding mine) ROMINATED DIPHENYL	both a strong Lewis acid and a bromine se r. er is manufactured by the exhaustive brom onversions of the less reactive under-brom edia of Industrial Chemistry. 5th ed.Vol A1: ETHERS	ource, it is likely one of the mor nination of phenyl ether. Lewis a ninated intermediates to decabe : Deerfield Beach, FL: VCH Publ HAZARD SCREENING DATE:	(85) 417]" (HSDB) e common catalysts used to produce acid catalysis and an excess of bromine romobiphenyl ether. [Gerhartz, W. (exec lishers, 1985 to Present., p. VA4 (85) 417 ID: 90193-67
Because this chemical is decabromobiphenyl ethe "Decabromobiphenyl eth are used to obtain high c ed.). Ullmann's Encyclope (HSDB, bolding mine) ROMINATED DIPHENYL IAZARD DATA SOURCE: 6: Impurity/Residual	both a strong Lewis acid and a bromine ser. er is manufactured by the exhaustive brom onversions of the less reactive under-brom edia of Industrial Chemistry. 5th ed.Vol A1: ETHERS Pharos Chemical and Materials Library	ource, it is likely one of the mor nination of phenyl ether. Lewis a ninated intermediates to decabe : Deerfield Beach, FL: VCH Publ HAZARD SCREENING DATE:	(85) 417]" (HSDB) e common catalysts used to produce acid catalysis and an excess of bromine romobiphenyl ether. [Gerhartz, W. (exec lishers, 1985 to Present., p. VA4 (85) 417 ID: 90193-67 2020-07-27 21:20:51
Because this chemical is decabromobiphenyl ethe "Decabromobiphenyl eth are used to obtain high c ed.). Ullmann's Encyclope (HSDB, bolding mine) ROMINATED DIPHENYL AZARD DATA SOURCE: b: Impurity/Residual HAZARD TYPE	both a strong Lewis acid and a bromine ser. er is manufactured by the exhaustive brom onversions of the less reactive under-brom edia of Industrial Chemistry. 5th ed.Vol A1: ETHERS Pharos Chemical and Materials Library GreenScreen: LT-P1	ource, it is likely one of the mor nination of phenyl ether. Lewis a ninated intermediates to decabe Deerfield Beach, FL: VCH Publ HAZARD SCREENING DATE: RC: UNK NANO: Unknown	(85) 417]" (HSDB) e common catalysts used to produce acid catalysis and an excess of bromine romobiphenyl ether. [Gerhartz, W. (exec lishers, 1985 to Present., p. VA4 (85) 417 ID: 90193-67 2020-07-27 21:20:51
Because this chemical is decabromobiphenyl ethe "Decabromobiphenyl eth are used to obtain high c ed.). Ullmann's Encyclope (HSDB, bolding mine) ROMINATED DIPHENYL AZARD DATA SOURCE: b: Impurity/Residual HAZARD TYPE PBT	both a strong Lewis acid and a bromine se r. er is manufactured by the exhaustive brom onversions of the less reactive under-brom edia of Industrial Chemistry. 5th ed.Vol A1: ETHERS Pharos Chemical and Materials Library GreenScreen: LT-P1 AGENCY AND LIST TITLES	ource, it is likely one of the mor nination of phenyl ether. Lewis a ninated intermediates to decabi : Deerfield Beach, FL: VCH Publ HAZARD SCREENING DATE: RC: UNK NANO: Unknown WARNINGS	(85) 417]" (HSDB) e common catalysts used to produce acid catalysis and an excess of bromine romobiphenyl ether. [Gerhartz, W. (exec lishers, 1985 to Present., p. VA4 (85) 417 ID: 90193-67 2020-07-27 21:20:51
Because this chemical is decabromobiphenyl ethe "Decabromobiphenyl eth are used to obtain high c ed.). Ullmann's Encyclope (HSDB, bolding mine) ROMINATED DIPHENYL IAZARD DATA SOURCE: 6: Impurity/Residual HAZARD TYPE PBT ADDITIONAL LISTINGS	both a strong Lewis acid and a bromine ser. er is manufactured by the exhaustive brom onversions of the less reactive under-brom edia of Industrial Chemistry. 5th ed.Vol A1: ETHERS Pharos Chemical and Materials Library GreenScreen: LT-P1 AGENCY AND LIST TITLES WA DoE - PBT	ource, it is likely one of the mornination of phenyl ether. Lewis a ninated intermediates to decabi Deerfield Beach, FL: VCH Public HAZARD SCREENING DATE: RC: UNK NANO: Unknown WARNINGS PBT NOTIFICATION	(85) 417]" (HSDB) e common catalysts used to produce acid catalysis and an excess of bromine romobiphenyl ether. [Gerhartz, W. (exec lishers, 1985 to Present., p. VA4 (85) 417 ID: 90193-67 2020-07-27 21:20:51
Because this chemical is decabromobiphenyl ethe "Decabromobiphenyl ethe are used to obtain high c ed.). Ullmann's Encyclope (HSDB, bolding mine) ROMINATED DIPHENYL IAZARD DATA SOURCE: 6: Impurity/Residual HAZARD TYPE PBT ADDITIONAL LISTINGS None found SUBSTANCE NOTES: "Do an excess of bromine are	both a strong Lewis acid and a bromine ser. er is manufactured by the exhaustive brom onversions of the less reactive under-brom edia of Industrial Chemistry. 5th ed.Vol A1: ETHERS Pharos Chemical and Materials Library GreenScreen: LT-P1 AGENCY AND LIST TITLES WA DoE - PBT AGENCY ecabromobiphenyl ether is manufactured for used to obtain high conversions of the less c ed.). Ullmann's Encyclopedia of Industrial	ource, it is likely one of the mornination of phenyl ether. Lewis a ninated intermediates to decabe be beerfield Beach, FL: VCH Puble HAZARD SCREENING DATE: RC: UNK NANO: Unknown WARNINGS PBT NOTIFICATION No by the exhaustive bromination of service under-brominated in the service of the service under-brominated in t	(85) 417]" (HSDB) e common catalysts used to produce acid catalysis and an excess of bromine romobiphenyl ether. [Gerhartz, W. (exec lishers, 1985 to Present., p. VA4 (85) 417 ID: 90193-67 2020-07-27 21:20:51 SUBSTANCE ROLE: Impurity/Residu
Because this chemical is decabromobiphenyl ethe "Decabromobiphenyl ethe are used to obtain high c ed.). Ullmann's Encyclope (HSDB, bolding mine) BROMINATED DIPHENYL MAZARD DATA SOURCE: (Impurity/Residual HAZARD TYPE PBT ADDITIONAL LISTINGS None found SUBSTANCE NOTES: "Do an excess of bromine are ether. [Gerhartz, W. (exce	both a strong Lewis acid and a bromine ser. er is manufactured by the exhaustive brom onversions of the less reactive under-brom edia of Industrial Chemistry. 5th ed.Vol A1: ETHERS Pharos Chemical and Materials Library GreenScreen: LT-P1 AGENCY AND LIST TITLES WA DoE - PBT AGENCY ecabromobiphenyl ether is manufactured for used to obtain high conversions of the less c ed.). Ullmann's Encyclopedia of Industrial	ource, it is likely one of the mornination of phenyl ether. Lewis a ninated intermediates to decabe be beerfield Beach, FL: VCH Puble HAZARD SCREENING DATE: RC: UNK NANO: Unknown WARNINGS PBT NOTIFICATION No by the exhaustive bromination of service under-brominated in the service of the service under-brominated in t	(85) 417]" (HSDB) e common catalysts used to produce acid catalysis and an excess of bromine romobiphenyl ether. [Gerhartz, W. (exec lishers, 1985 to Present., p. VA4 (85) 417 ID: 90193-67 2020-07-27 21:20:51 SUBSTANCE ROLE: Impurity/Residu

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 11 of 38





%: Impurity/Residual	GreenScreen: LT-P1	RC: UNK	NANO: Unknown	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
	EC - CEPA DSL		Persistent	
SKI	GHS - New Zealand		Skin corrosion ca	ategory 1C
EYE	GHS - New Zealand		Serious eye dam	age category 1
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	
None found			No I	istings found on Additional Hazard Lists

SUBSTANCE NOTES: "Decabromobiphenyl ether can be prepared at atmospheric pressure by reacting bromine with phenyl ether in ethylene dibromide solvent and in the presence of aluminum bromide catalyst. [Gerhartz, W. (exec ed.). Ullmann's Encyclopedia of Industrial Chemistry. 5th ed.Vol A1: Deerfield Beach, FL: VCH Publishers, 1985 to Present., p. VA4 (85) 417]" (HSDB) Because this chemical is both a strong Lewis acid and a bromine source, it is likely one of the more common catalysts used to produce decabromobiphenyl ether.

TITANIUM DIOXIDE

%: 5.0000 - 10.0000

Yes

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED:

MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: None Noted. Residuals and impurities were screened using the toxnet database. Residuals and impurities listed in the HPD are for information purposes only and are not 100% guaranteed to be present in the fabric. For additional information please check the section INVENTORY AND SCREENING NOTES.

OTHER MATERIAL NOTES:

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 12 of 38





	aros Chemical and Materials Library	HAZARD S	CREENING DATE:	2022-08-26 11:34:20	
%: 10.0000 - 20.0000	GreenScreen: LT-1	RC: UNK	NANO: No	SUBSTANCE ROLE: Pigment	t
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
CAN	US CDC - Occupational Carcino	gens	Occupational Ca	arcinogen	
CAN	CA EPA - Prop 65		Carcinogen - sp route	ecific to chemical form or exposur	e
CAN	IARC		Group 2B - Poss from occupation	ibly carcinogenic to humans - inha al sources	aled
CAN	МАК		-	up 3A - Evidence of carcinogenic e t to establish MAK/BAT value	effect
	EC - CEPA DSL		Persistent		
MAM	GHS - Japan		repeated exposi	lamage to organs through prolong ure [Specific target organs/system g repeated exposure - Category 1]	ic
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION		
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)	ation		Product Standard Restricted (RSL) - Effective July 1, 2022	
			Cosmetics & Pe	rsonal Care Products	
SUBSTANCE NOTES: Titaniu	Im dioxide is mostly pure as impurities	are removed	I in the processing.		
SUBSTANCE NOTES: Titaniu	um dioxide is mostly pure as impurities	are removed	I in the processing.		
	um dioxide is mostly pure as impurities	are removed	I in the processing.		
SUBSTANCE NOTES: Titaniu			MPLETED: MA	TERIAL TYPE: Geologically Derive terial	ed





AZARD DATA SOURCE: Ph	aros Chemical and Materials Library	HAZARD SCREENING DATE: 2022-08-26 1	1:34:19
%: 44.4000 - 45.7000	GreenScreen: BM-2	RC: UNK NANO: Unknown SUBS	ANCE ROLE: Filler
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
	EC - CEPA DSL	Persistent	
ADDITIONAL LISTINGS	AGENCY	NOTIFICATION	
None found		No listings found	on Additional Hazard Lis
Silicon dioxide (44.4-45.7%) Aluminum oxide (37.4-39.6%) Ferrous oxide (0.4-0.8%) Titanium dioxide (0.4-1.7%) Phosphorous pentoxide (trace Calcium oxide (trace to 0.2%) Magnesium oxide (trace to 0.1%) Sodium oxide (0.06% to 0.1%)	e to 0.3%) 1%)		
Krukowski (eds.), 7th Edition: Exploration, 2009.]	Industrial Minerals & Rocks – Commo	er in: Jessica Elzea Kogel, Nikhil Trivedi, Jame lities, Markets, and Uses, Society for Mining	Metallurgy, and
[Denis Brosnan and John Sar Krukowski (eds.), 7th Edition: Exploration, 2009.] SILICON DIOXIDE	Industrial Minerals & Rocks – Commo	dities, Markets, and Uses, Society for Mining HAZARD SCREENING DATE: 2022-08-26 1	Netallurgy, and ID: 7631-80
[Denis Brosnan and John Sar Krukowski (eds.), 7th Edition: Exploration, 2009.] SILICON DIOXIDE	Industrial Minerals & Rocks – Commo	dities, Markets, and Uses, Society for Mining HAZARD SCREENING DATE: 2022-08-26 1	Metallurgy, and
[Denis Brosnan and John Sar Krukowski (eds.), 7th Edition: Exploration, 2009.] ILICON DIOXIDE IAZARD DATA SOURCE: Ph: 6: 44.4000 - 45.7000	Industrial Minerals & Rocks – Commo	dities, Markets, and Uses, Society for Mining HAZARD SCREENING DATE: 2022-08-26 1	Metallurgy, and ID: 7631-8 (1:34:19
[Denis Brosnan and John Sar Krukowski (eds.), 7th Edition: Exploration, 2009.]	Industrial Minerals & Rocks – Commo aros Chemical and Materials Library GreenScreen: BM-1	dities, Markets, and Uses, Society for Mining DATE: 2022-08-26 1 RC: UNK NANO: Unknown SUBS	ID: 7631-86

 EC - CEPA DSL
 Persistent

 MAM
 GHS - Japan
 H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]

 MAM
 GHS - Australia
 H372 - Causes damage to organs through prolonged or repeated exposure - Category 1]

 MAM
 GHS - Australia
 H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]

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HPD v2.3 created via HPDC Builder Page 14 of 38





IAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-08-26 11:34:20 IAZARD DATA SOURCE: GreenScreen: BM-2 RC: UNK NANO: No SUBSTANCE ROLE: Filler HAZARD TYPE AGENCY AND LIST TITLES WARNINGS EC - CEPA DSL Persistent MAM GHS - Japan H372 - Causes damage to organs through prolor repeated exposure [Specific target organs/syste toxicity following repeated exposure - Category ADDITIONAL LISTINGS AGENCY NOTIFICATION RESTRICTED LIST Cradle to Cradle Products Innovation Institute (C2CPII) C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Material RESTRICTED LIST Cradle to Cradle Products Innovation Institute (C2CPII) C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022	POSITIVE LIST	US Environmental Protection Agency (US EPA)	US EPA - DfE SCIL Green Circle - Verified Low Concern
b: 3.4000 - 39.6000 GreenScreen: BM-2 RC: UNK NANO: No SUBSTANCE ROLE: Filler HAZARD TYPE AGENCY AND LIST TITLES WARNINGS EC - CEPA DSL Persistent MAM GHS - Japan H372 - Causes damage to organs through prolorepeated exposure [Specific target organs/systet toxicity following repeated exposure - Category ADDITIONAL LISTINGS AGENCY NOTIFICATION RESTRICTED LIST Cradle to Cradle Products Innovation Institute (C2CPII) C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materian RESTRICTED LIST Cradle to Cradle Products Innovation Institute (C2CPII) C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022	This is a geological material a "best guess" and are not a g For this material not only are available. All of these are list impurities. NOTES Brosnan and Sanders itemize Silicon dioxide (44.4-45.7%) Aluminum oxide (37.4-39.6% Ferrous oxide (0.4-0.8%) Titanium dioxide (0.4-1.7%) Phosphorous pentoxide (trac Calcium oxide (17.4 co.2% Magnesium oxide (trace to 0.2% Sodium oxide (0.06% to 0.1%) Potassium oxide (0.1-0.3%) [Denis Brosnan and John Sat	and impurities and true composition are always va- uarantee of presence in the actual material. No act impurities considered but the actual composition. ed on this HPD for information purposes only. Sub e the components of two kaolin clays (from Georgi) ce to 0.3%) .1%) 6) nders, "Fine Ceramic Products," chapter in: Jessic	tual raw materials are tested. Per the Pharos database, the following information is stances that are below the threshold will be recorded as a and Florida):
HAZARD TYPE AGENCY AND LIST TITLES WARNINGS EC - CEPA DSL Persistent MAM GHS - Japan H372 - Causes damage to organs through profore repeated exposure [Specific target organs/systet toxicity following repeated exposure - Category ADDITIONAL LISTINGS AGENCY NOTIFICATION RESTRICTED LIST Cradle to Cradle Products Innovation Institute (C2CPII) C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materian RESTRICTED LIST Cradle to Cradle Products Innovation Institute (C2CPII) C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022	· ,.	: Industrial Minerals & Rocks – Commodities, Mark	ets, and Uses, Society for Mining Metallurgy, and
MAM GHS - Japan H372 - Causes damage to organs through protorepeated exposure [Specific target organs/systet toxicity following repeated exposure - Category ADDITIONAL LISTINGS AGENCY NOTIFICATION RESTRICTED LIST Cradle to Cradle Products Innovation Institute (C2CPII) C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materian C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022	Exploration, 2009.]	aros Chemical and Materials Library HAZARD S	ID: 1344-20 SCREENING DATE: 2022-08-26 11:34:20
ADDITIONAL LISTINGS AGENCY NOTIFICATION RESTRICTED LIST Cradle to Cradle Products Innovation Institute (C2CPII) C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 RESTRICTED LIST Cradle to Cradle Products Innovation Institute (C2CPII) C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 RESTRICTED LIST Cradle to Cradle Products Innovation Institute (C2CPII) C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022	Exploration, 2009.] LUMINUM OXIDE MAZARD DATA SOURCE: Ph 6: 3.4000 - 39.6000	aros Chemical and Materials Library HAZARD S GreenScreen: BM-2 RC: UNK	ID: 1344-20 SCREENING DATE: 2022-08-26 11:34:20 NANO: No SUBSTANCE ROLE: Filler
RESTRICTED LIST Cradle to Cradle Products Innovation Institute (C2CPII) C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materine RESTRICTED LIST Cradle to Cradle Products Innovation Institute (C2CPII) C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022	Exploration, 2009.] LUMINUM OXIDE AZARD DATA SOURCE: Ph o: 3.4000 - 39.6000	aros Chemical and Materials Library HAZARD S GreenScreen: BM-2 RC: UNK AGENCY AND LIST TITLES	ID: 1344-20 SCREENING DATE: 2022-08-26 11:34:20 NANO: No SUBSTANCE ROLE: Filler WARNINGS
Institute (C2CPII) Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materi RESTRICTED LIST Cradle to Cradle Products Innovation Institute (C2CPII) C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022	Exploration, 2009.] LUMINUM OXIDE AZARD DATA SOURCE: Ph 3: 3.4000 - 39.6000 HAZARD TYPE	aros Chemical and Materials Library HAZARD S GreenScreen: BM-2 RC: UNK AGENCY AND LIST TITLES EC - CEPA DSL	ID: 1344-20 SCREENING DATE: 2022-08-26 11:34:20 NANO: No SUBSTANCE ROLE: Filler WARNINGS
RESTRICTED LIST Cradle to Cradle Products Innovation Institute (C2CPII) C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022	Exploration, 2009.] LUMINUM OXIDE AZARD DATA SOURCE: Ph 3: 3.4000 - 39.6000 HAZARD TYPE	aros Chemical and Materials Library HAZARD S GreenScreen: BM-2 RC: UNK AGENCY AND LIST TITLES EC - CEPA DSL GHS - Japan	ID: 1344-20 SCREENING DATE: 2022-08-26 11:34:20 NANO: No SUBSTANCE ROLE: Filler WARNINGS Persistent H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
Institute (C2CPII) Substances List (RSL) - Effective July 1, 2022	Exploration, 2009.] LUMINUM OXIDE AZARD DATA SOURCE: Ph 3: 3.4000 - 39.6000 HAZARD TYPE MAM ADDITIONAL LISTINGS	aros Chemical and Materials Library HAZARD S GreenScreen: BM-2 RC: UNK AGENCY AND LIST TITLES EC - CEPA DSL GHS - Japan AGENCY Cradle to Cradle Products Innovation	ID: 1344-20 SCREENING DATE: 2022-08-26 11:34:20 NANO: No SUBSTANCE ROLE: Filler WARNINGS Persistent H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] NOTIFICATION C2C Certified v4 Product Standard Restricted
	Exploration, 2009.] LUMINUM OXIDE AZARD DATA SOURCE: Ph 3: 3.4000 - 39.6000 HAZARD TYPE MAM ADDITIONAL LISTINGS	aros Chemical and Materials Library HAZARD S GreenScreen: BM-2 RC: UNK AGENCY AND LIST TITLES EC - CEPA DSL GHS - Japan AGENCY Cradle to Cradle Products Innovation	ID: 1344-20 SCREENING DATE: 2022-08-26 11:34:20 NANO: No SUBSTANCE ROLE: Filler WARNINGS Persistent H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] NOTIFICATION C2C Certified v4 Product Standard Restricted
Children's Products	Exploration, 2009.] LUMINUM OXIDE AZARD DATA SOURCE: Ph 3: 3.4000 - 39.6000 HAZARD TYPE MAM ADDITIONAL LISTINGS RESTRICTED LIST	aros Chemical and Materials Library HAZARD S GreenScreen: BM-2 RC: UNK AGENCY AND LIST TITLES EC - CEPA DSL GHS - Japan AGENCY Cradle to Cradle Products Innovation Institute (C2CPII)	ID: 1344-20 SCREENING DATE: 2022-08-26 11:34:20 NANO: No SUBSTANCE ROLE: Filler WARNINGS Persistent H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] NOTIFICATION C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials C2C Certified v4 Product Standard Restricted

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HPD v2.3 created via HPDC Builder Page 15 of 38





SUBSTANCE NOTES: KAOLIN CLAY (primary CASRN is 1332-58-7) This is a geological material and impurities and true composition are always variable. Substances listed in connection to this material are a "best guess" and are not a guarantee of presence in the actual material. No actual raw materials are tested. For this material not only are impurities considered but the actual composition. Per the Pharos database, the following information is available. All of these are listed on this HPD for information purposes only. Substances that are below the threshold will be recorded as impurities. NOTES Brosnan and Sanders itemize the components of two kaolin clays (from Georgia and Florida): Silicon dioxide (44.4-45.7%) Aluminum oxide (37.4-39.6%) Ferrous oxide (0.4-0.8%) Titanium dioxide (0.4-1.7%) Phosphorous pentoxide (trace to 0.3% Calcium oxide (trace to 0.2%) Magnesium oxide (trace to 0.1%) Sodium oxide (0.06% to 0.1%) Potassium oxide (0.1-0.3%) [Denis Brosnan and John Sanders, "Fine Ceramic Products," chapter in: Jessica Elzea Kogel, Nikhil Trivedi, James Barker, Stanley Krukowski (eds.), 7th Edition: Industrial Minerals & Rocks - Commodities, Markets, and Uses, Society for Mining Metallurgy, and Exploration, 2009.]

TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SO		
			JALLINING DATE. 2022	-08-26 11:34:24
%: 0.4000 - 1.7000	GreenScreen: LT-1	RC: UNK	NANO: Unknown	SUBSTANCE ROLE: Filler
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CAN	US CDC - Occupational Carcino	gens	Occupational Carcino	gen
CAN	CA EPA - Prop 65		Carcinogen - specific route	to chemical form or exposure
CAN	IARC		Group 2B - Possibly c from occupational sou	arcinogenic to humans - inhaled Irces
CAN	МАК		- ·	- Evidence of carcinogenic effect stablish MAK/BAT value
END	TEDX - Potential Endocrine Disr	uptors	Potential Endocrine Di	sruptor
CAN	МАК		Carcinogen Group 4 - Iow risk under MAK/B	Non-genotoxic carcinogen with AT levels
CAN	EU - GHS (H-Statements) Annex	6 Table 3-1	H351 - Suspected of c Category 2]	ausing cancer [Carcinogenicity -
	EC - CEPA DSL		Persistent	
CAN	GHS - Japan		H351 - Suspected of c Category 2]	ausing cancer [Carcinogenicity -
MAM	GHS - Japan		repeated exposure [Sp	e to organs through prolonged or becific target organs/systemic ated exposure - Category 1]
CAN	EU - Annex VI CMRs		Carcinogen Category	2 - Suspected human Carcinogen

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O ROLLEASE ACMEDA



	AGENCY		IOTIFICATION	
POSITIVE LIST	US Environmental Protection A EPA)	Agency (US l	JS EPA - DfE SCIL	
		C	Green Circle - Verified	Low Concern
RESTRICTED LIST	Cradle to Cradle Products Inno Institute (C2CPII)			uct Standard Restricted - Effective July 1, 2022
		C	Cosmetics & Personal	Care Products
available. All of these an impurities. NOTES Brosnan and Sanders ite Silicon dioxide (44.4-45. Aluminum oxide (37.4-33 Ferrous oxide (0.4-0.8% Titanium dioxide (0.4-1.7 Phosphorous pentoxide Calcium oxide (trace to (Magnesium oxide (trace Sodium oxide (trace Sodium oxide (0.06% to Potassium oxide (0.1-0.3 [Denis Brosnan and Joh	9.6%)) 7%) (trace to 0.3% 0.2%) to 0.1%) 0.1%)	ses only. Substan (from Georgia an oter in: Jessica El	ces that are below th d Florida): zea Kogel, Nikhil Trivo	e threshold will be recorded as edi, James Barker, Stanley
	Pharos Chemical and Materials Library		FENING DATE: 2022	
2UARTZ IAZARD DATA SOURCE: 6: 0.0000 - 1.0000	Pharos Chemical and Materials Library GreenScreen: BM-1	HAZARD SCR	EENING DATE: 2022 NANO: Unknown	ID: 14808-6

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HPD v2.3 created via HPDC Builder Page 17 of 38





CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CAN	МАК	Carcinogen Group 1 - Substances that cause cancer in man
CAN	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]
CAN	GHS - New Zealand	Carcinogenicity category 1
	EC - CEPA DSL	Persistent
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
GEN	GHS - Japan	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1
ADDITIONAL LISTINGS	AGENCY	NOTIFICATION
None found		No listings found on Additional Hazard Lists
"best guess" and are not a guarar For this material not only are impu available. All of these are listed or impurities. NOTES	mpurities and true composition are always vari ntee of presence in the actual material. No actu urities considered but the actual composition. In In this HPD for information purposes only. Subs components of two kaolin clays (from Georgia 0.3%	Per the Pharos database, the following information is tances that are below the threshold will be recorded as

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HPD v2.3 created via HPDC Builder Page 18 of 38









HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SC	REENING DATE: 2022	2-08-26 11:34:26	
%: 0.4000 - 0.8000	GreenScreen: LT-UNK	RC: UNK	NANO: Unknown	SUBSTANCE RO	DLE: Filler
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
CAN	МАК		Carcinogen Group 3B but not sufficient for c		inogenic effec
	EC - CEPA DSL		Persistent		
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION		
None found			No listing	s found on Additio	onal Hazard Lis
Ferrous oxide (0.4-0.8%) Titanium dioxide (0.4-1.7 Phosphorous pentoxide Calcium oxide (trace to 0 Magnesium oxide (trace	%) (trace to 0.3% 0.2%)				
Titanium dioxide (0.4-1.7 Phosphorous pentoxide Calcium oxide (trace to 0 Magnesium oxide (trace Sodium oxide (0.06% to Potassium oxide (0.1-0.3 [Denis Brosnan and John	%) (trace to 0.3% 0.2%) to 0.1%) 0.1%)		-		
Titanium dioxide (0.4-1.7 Phosphorous pentoxide Calcium oxide (trace to 0 Magnesium oxide (trace Sodium oxide (0.06% to Potassium oxide (0.1-0.3 [Denis Brosnan and John Krukowski (eds.), 7th Edi	'%) (trace to 0.3% 0.2%) to 0.1%) 0.1%) 3%) n Sanders, "Fine Ceramic Products," chapt ition: Industrial Minerals & Rocks – Commo		-		y, and
Titanium dioxide (0.4-1.7 Phosphorous pentoxide Calcium oxide (trace to 0 Magnesium oxide (trace Sodium oxide (0.06% to Potassium oxide (0.1-0.3 [Denis Brosnan and John Krukowski (eds.), 7th Edi Exploration, 2009.]	'%) (trace to 0.3% 0.2%) to 0.1%) 0.1%) 3%) n Sanders, "Fine Ceramic Products," chapt ition: Industrial Minerals & Rocks – Commo	odities, Markets	s, and Uses, Society fo	r Mining Metallurg	y, and
Titanium dioxide (0.4-1.7 Phosphorous pentoxide Calcium oxide (trace to 0 Magnesium oxide (trace Sodium oxide (0.06% to Potassium oxide (0.1-0.3 [Denis Brosnan and John Krukowski (eds.), 7th Edi Exploration, 2009.]	(%) (trace to 0.3%).2%) to 0.1%) 0.1%) %%) n Sanders, "Fine Ceramic Products," chapt ition: Industrial Minerals & Rocks – Commo	odities, Markets	s, and Uses, Society fo	r Mining Metallurg	y, and ID: 1314-5
Titanium dioxide (0.4-1.7 Phosphorous pentoxide Calcium oxide (trace to 0 Magnesium oxide (trace Sodium oxide (0.06% to Potassium oxide (0.1-0.3 [Denis Brosnan and John Krukowski (eds.), 7th Edi Exploration, 2009.]	(trace to 0.3% 0.2%) to 0.1%) 0.1%) 3%) In Sanders, "Fine Ceramic Products," chapt tition: Industrial Minerals & Rocks – Commo DE Pharos Chemical and Materials Library	dities, Markets	s, and Uses, Society fo	r Mining Metallurg 2-08-26 11:34:26	y, and ID: 1314-5
Titanium dioxide (0.4-1.7 Phosphorous pentoxide Calcium oxide (trace to 0 Magnesium oxide (trace Sodium oxide (0.06% to Potassium oxide (0.1-0.3 [Denis Brosnan and John Krukowski (eds.), 7th Edi Exploration, 2009.]	(trace to 0.3% 0.2%) to 0.1%) 0.1%) 3%) In Sanders, "Fine Ceramic Products," chapt tition: Industrial Minerals & Rocks – Commo DE Pharos Chemical and Materials Library	dities, Markets	s, and Uses, Society fo	r Mining Metallurg 2-08-26 11:34:26	y, and ID: 1314-5
Titanium dioxide (0.4-1.7 Phosphorous pentoxide Calcium oxide (trace to 0 Magnesium oxide (trace Sodium oxide (0.06% to Potassium oxide (0.1-0.3 [Denis Brosnan and John Krukowski (eds.), 7th Edi Exploration, 2009.]	(trace to 0.3% 0.2%) to 0.1%) 0.1%) 3%) In Sanders, "Fine Ceramic Products," chapt tition: Industrial Minerals & Rocks – Commo DE Pharos Chemical and Materials Library	dities, Markets	s, and Uses, Society fo	r Mining Metallurg 2-08-26 11:34:26	y, and ID: 1314-5
Titanium dioxide (0.4-1.7 Phosphorous pentoxide Calcium oxide (trace to 0 Magnesium oxide (trace Sodium oxide (0.06% to Potassium oxide (0.1-0.3 [Denis Brosnan and John Krukowski (eds.), 7th Edi Exploration, 2009.]	(frace to 0.3% 0.2%) to 0.1%) 0.1%) 3%) In Sanders, "Fine Ceramic Products," chapt tition: Industrial Minerals & Rocks – Commo DE Pharos Chemical and Materials Library	dities, Markets	s, and Uses, Society fo	r Mining Metallurg 2-08-26 11:34:26	y, and ID: 1314-5

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HPD v2.3 created via HPDC Builder Page 19 of 38





HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]
	EC - CEPA DSL	Persistent
EYE	GHS - New Zealand	Serious eye damage category 1
EYE	GHS - Japan	H318 - Causes serious eye damage [Serious eye damage / eye irritation - Category 1]
SKI	GHS - Japan	H314 - Causes severe skin burns and eye damage [Skin corrosion / irritation - Category 1]
SKI	GHS - Australia	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]
SKI	GHS - Korea	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1]
SKI	GHS - New Zealand	Skin corrosion category 1B
MAM	Québec CSST - WHMIS 1988	Class D1A - Very toxic material causing immediate and serious toxic effects
MAM	GHS - Korea	H330 - Fatal if inhaled [Acute toxicity (inhalation) - Category 2]
МАМ	GHS - Japan	H330 - Fatal if inhaled [Acute toxicity (inhalation: dust, mist) - Category 2]
None found		No listings found on Additional Hazard Lists
This is a geological material a "best guess" and are not a g For this material not only are available. All of these are liste impurities. NOTES Brosnan and Sanders itemize Silicon dioxide (44.4-45.7%) Aluminum oxide (37.4-39.6%) Ferrous oxide (0.4-1.7%) Phosphorous pentoxide (trac Calcium oxide (0.4-1.7%) Magnesium oxide (trace to 0.2%) Magnesium oxide (trace to 0.2%) Sodium oxide (0.06% to 0.1%) Potassium oxide (0.1-0.3%) [Denis Brosnan and John Sau	uarantee of presence in the actual material. No actu impurities considered but the actual composition. ed on this HPD for information purposes only. Subs the components of two kaolin clays (from Georgia) ee to 0.3%) .1%) 6)	Per the Pharos database, the following information is stances that are below the threshold will be recorded as a and Florida): a and Florida):
CALCIUM OXIDE (POST-CON		
		ID: 1305-78- 8
HAZARD DATA SOURCE: Ph	SUMER) aros Chemical and Materials Library HAZARD S	

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HPD v2.3 created via HPDC Builder Page 20 of 38





eki		1015 0	kin imitation ICkin active dimitati
SKI	GHS - Australia	H315 - Causes s Category 2]	kin irritation [Skin corrosion/irritation -
	EC - CEPA DSL	Persistent	
МАМ	GHS - Japan	repeated exposu	lamage to organs through prolonged or ure [Specific target organs/systemic g repeated exposure - Category 1]
МАМ	GHS - Japan		lamage to organs [Specific target toxicity following single exposure -
SKI	GHS - New Zealand	Skin corrosion c	ategory 1C
EYE	GHS - New Zealand	Serious eye dam	age category 1
EYE	GHS - Japan		erious eye damage [Serious eye itation - Category 1]
SKI	GHS - Japan	H315 - Causes s Category 2]	kin irritation [Skin corrosion / irritation \cdot
EYE	GHS - Australia		erious eye damage [Serious eye ation - Category 1]
ADDITIONAL LISTINGS	AGENCY	NOTIFICATION	
None found		No	listings found on Additional Hazard List
"best guess" and are not a g For this material not only are available. All of these are list	and impurities and true composition a guarantee of presence in the actual ma e impurities considered but the actual of ted on this HPD for information purpos	terial. No actual raw materials an composition. Per the Pharos dat	re tested. abase, the following information is
"best guess" and are not a g For this material not only are available. All of these are list impurities. NOTES Brosnan and Sanders itemiz Silicon dioxide (44.4-45.7%) Aluminum oxide (37.4-39.6% Ferrous oxide (0.4-0.8%) Titanium dioxide (0.4-1.7%) Phosphorous pentoxide (trac Calcium oxide (trace to 0.2% Magnesium oxide (trace to 0.2% Magnesium oxide (0.06% to 0.1 Potassium oxide (0.1-0.3%) [Denis Brosnan and John Sa	guarantee of presence in the actual ma e impurities considered but the actual of ted on this HPD for information purpos are the components of two kaolin clays (6) ce to 0.3% (6) 0.1%)	re always variable. Substances I terial. No actual raw materials a composition. Per the Pharos dat es only. Substances that are bel (from Georgia and Florida): ter in: Jessica Elzea Kogel, Nikh	abase, the following information is ow the threshold will be recorded as il Trivedi, James Barker, Stanley
"best guess" and are not a g For this material not only are available. All of these are list impurities. NOTES Brosnan and Sanders itemiz Silicon dioxide (44.4-45.7%) Aluminum oxide (37.4-39.6%) Ferrous oxide (0.4-0.8%) Titanium dioxide (0.4-1.7%) Phosphorous pentoxide (trac Calcium oxide (trace to 0.2%) Magnesium oxide (trace to 0.2%) Magnesium oxide (0.16%) to 0.1% Potassium oxide (0.1-0.3%) [Denis Brosnan and John Sa Krukowski (eds.), 7th Edition Exploration, 2009.]	guarantee of presence in the actual ma e impurities considered but the actual of ted on this HPD for information purpos at the components of two kaolin clays (6) (6) (ce to 0.3% (6) (0.1%) (%) anders, "Fine Ceramic Products," chap	re always variable. Substances I terial. No actual raw materials a composition. Per the Pharos dat es only. Substances that are bel (from Georgia and Florida): (from Georgia and Florida): ter in: Jessica Elzea Kogel, Nikh odities, Markets, and Uses, Soci	The tested. abase, the following information is ow the threshold will be recorded as il Trivedi, James Barker, Stanley ety for Mining Metallurgy, and ID: 1309-48

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HPD v2.3 created via HPDC Builder Page 21 of 38





HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
CAN	МАК	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels	1
	EC - CEPA DSL	Persistent	
ADDITIONAL LISTINGS	AGENCY	NOTIFICATION	
POSITIVE LIST	US Environmental Protection Ac EPA)	ncy (US US EPA - DfE SCIL	
		Green Circle - Verified Low Concern	
For this material not only are in available. All of these are listed impurities. NOTES Brosnan and Sanders itemize f Silicon dioxide (44.4-45.7%) Aluminum oxide (37.4-39.6%) Ferrous oxide (0.4-0.8%) Titanium dioxide (0.4-1.7%) Phosphorous pentoxide (trace Calcium oxide (trace to 0.2%) Magnesium oxide (trace to 0.1%) Potassium oxide (0.16% to 0.1%) Potassium oxide (0.1-0.3%) [Denis Brosnan and John Sand	mpurities considered but the actual of d on this HPD for information purpose the components of two kaolin clays (to 0.3% %) ders, "Fine Ceramic Products," chapt	rial. No actual raw materials are tested. mposition. Per the Pharos database, the following information is a only. Substances that are below the threshold will be recorded as com Georgia and Florida): r in: Jessica Elzea Kogel, Nikhil Trivedi, James Barker, Stanley ities, Markets, and Uses, Society for Mining Metallurgy, and	
ANATASE (TIO2)		ID: 1317 -	70-0
HAZARD DATA SOURCE: Phar	ros Chemical and Materials Library	HAZARD SCREENING DATE: 2022-08-26 11:34:28	
%: Impurity/Residual	GreenScreen: LT-1	RC: UNK NANO: No SUBSTANCE ROLE: Impurity/Resid	ual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
CAN	US CDC - Occupational Carcino	ens Occupational Carcinogen	
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route	
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhale from occupational sources	ł
CAN	МАК	Carcinogen Group 3A - Evidence of carcinogenic effe	cts
МАМ	GHS - Japan	H372 - Causes damage to organs through prolonged	

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HPD v2.3 created via HPDC Builder Page 22 of 38





ADDITIONAL LISTINGS	AGENCY	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)	
		Cosmetics & Personal Care Products
This is a geological material a "best guess" and are not a gu For this material not only are i available. All of these are liste impurities. NOTES Brosnan and Sanders itemize Silicon dioxide (44.4-45.7%) Aluminum oxide (37.4-39.6%) Ferrous oxide (0.4-0.8%) Titanium dioxide (0.4-0.8%) Titanium dioxide (0.4-1.7%) Phosphorous pentoxide (trace Calcium oxide (trace to 0.2%) Magnesium oxide (trace to 0.1% Potassium oxide (0.1-0.3%) [Denis Brosnan and John San	arantee of presence in the actual mat impurities considered but the actual c d on this HPD for information purpose the components of two kaolin clays (f e to 0.3% 1%)) ders, "Fine Ceramic Products," chapt	e always variable. Substances listed in connection to this material are a erial. No actual raw materials are tested. omposition. Per the Pharos database, the following information is as only. Substances that are below the threshold will be recorded as
ANTIMONY OXIDE	%: 3.0000 - 8.0000	
PRODUCT THRESHOLD: 100 pp	m RESIDUALS AND IMPURITIES E	VALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material
	s only and are not 100% guaranteed to	screened using the toxnet database. Residuals and impurities listed in the o be present in the fabric. For additional information please check the
OTHER MATERIAL NOTES: Trac	e impurities such as arsenic, copper, i	ron, lead, and nickel.
ANTIMONY OXIDE (ANTIMON	Y TRIOXIDE)	ID: 1309-64-4
HAZARD DATA SOURCE: Pha	ros Chemical and Materials Library	HAZARD SCREENING DATE: 2022-08-26 11:34:21
%: 6.0000 - 16.0000	GreenScreen: BM-1	RC: Both NANO: No SUBSTANCE ROLE: Flame retardant

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HPD v2.3 created via HPDC Builder Page 23 of 38



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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CAN	CA EPA - Prop 65	Carcinogen
CAN	IARC	Group 2b - Possibly carcinogenic to humans
CAN	МАК	Carcinogen Group 2 - Considered to be carcinogenic for man
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1B]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
SKI	GHS - New Zealand	Skin irritation category 2
EYE	GHS - New Zealand	Eye irritation category 2
	EC - CEPA DSL	Persistent
CAN	GHS - New Zealand	Carcinogenicity category 2
МАМ	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1
CAN	EU - Annex VI CMRs	Carcinogen Category 2 - Suspected human Carcinogen
МАМ	GHS - Japan	H371 - May cause damage to organs [Specific target organs/systemic toxicity following single exposure - Category 2]
SKI	GHS - Korea	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1]
AQU	GHS - Korea	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
CAN	GHS - Australia	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
CAN	GHS - Korea	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]

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HPD v2.3 created via HPDC Builder Page 24 of 38





	AGENCY		NOTIFICATION		
RESTRICTED LIST	Perkins+Will (P+W)		P&W - Precautio	onary List	
			Precautionary lis avoidance	st of substances recomr	mended for
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)	vation		Product Standard Rest (RSL) - Effective July 1,	
			Biological and E	nvironmentally Release	d Materials
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)	vation		Product Standard Rest (RSL) - Effective July 1,	
			Children's Produ	ucts	
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)	vation		Product Standard Rest (RSL) - Effective July 1,	
			Cosmetics & Per	rsonal Care Products	
IAZARD DATA SOURCE: PI	haros Chemical and Materials Library GreenScreen: LT-1	HAZARD SO	CREENING DATE: NANO: No	2022-08-26 11:34:34 SUBSTANCE ROLE: In	
AZARD DATA SOURCE: PI	naros Chemical and Materials Library	HAZARD SO	CREENING DATE:	2022-08-26 11:34:34	

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HPD v2.3 created via HPDC Builder Page 25 of 38





HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	МАК	Carcinogen Group 1 - Substances that cause cancer in man
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	CA EPA - Prop 65	Carcinogen
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen
CAN	IARC	Group 2b - Possibly carcinogenic to humans
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
RES	МАК	Sensitizing Substance Sah - Danger of airway & skin sensitization
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity Category 2]
МАМ	EU - GHS (H-Statements) Annex 6 Table 3-1	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
	EC - CEPA DSL	Persistent
CAN	GHS - New Zealand	Carcinogenicity category 2
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity Category 2]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
МАМ	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
МАМ	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
SKI	GHS - Japan	H317 - May cause an allergic skin reaction [Skin sensitizer - Category 1]
CAN	EU - Annex VI CMRs	Carcinogen Category 2 - Suspected human Carcinoge
SKI	GHS - New Zealand	Skin sensitisation category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute categor 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 1
CAN	GHS - Australia	H351 - Suspected of causing cancer [Carcinogenicity Category 2]

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HPD v2.3 created via HPDC Builder Page 26 of 38





ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	
RESTRICTED LIST	Cradle to Cradle Products Inno Institute (C2CPII)	vation		4 Product Standard Restricted t (RSL) - Effective July 1, 2022
			Biological and I	Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Inno Institute (C2CPII)	vation		4 Product Standard Restricted t (RSL) - Effective July 1, 2022
			Children's Prod	lucts
RESTRICTED LIST	Cradle to Cradle Products Inno Institute (C2CPII)	vation		4 Product Standard Restricted t (RSL) - Effective July 1, 2022
			Footwear, Appa	arel & Jewelry Products
information purposes only an INVENTORY AND SCREENIN	nd are not 100% guaranteed to be pre-	-		als and impurities listed in the HPD are I information please check the section
-EAD HAZARD DATA SOURCE: Ph	aros Chemical and Materials Library	HAZARD S	CREENING DATE:	ID: 7439-9
%: Impurity/Residual	GreenScreen: BM-1	RC: UNK	NANO: No	SUBSTANCE ROLE: Impurity/Residu
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	obbinition note: imparty/riolda
END	TEDX - Potential Endocrine Disi	ruptors	Potential Endoo	crine Disruptor
РВТ	OSPAR - Priority PBTs & EDs & concern	equivalent	PBT - Chemica	I for Priority Action
REP	EU - SVHC Authorisation List		Toxic to reprod	uction - Candidate list
РВТ	OR DEQ - Priority Persistent Po	llutants	Priority Persiste	ent Pollutant - Tier 1
MUL	ChemSec - SIN List		CMR - Carcinog Toxicant	gen, Mutagen &/or Reproductive
CAN	CA EPA - Prop 65		Carcinogen	
CAN	IARC		Group 2b - Pos	sibly carcinogenic to humans
CAN	МАК		Carcinogen Gro man	oup 2 - Considered to be carcinogenic f
CAN	US NIH - Report on Carcinogen	IS	Reasonably An	ticipated to be Human Carcinogen
DEV	G&L - Neurotoxic Chemicals		Developmental	Neurotoxicant
CAN	US EPA - IRIS Carcinogens		(1986) Group B	2 - Probable human Carcinogen
CAN	IARC		Group 2a - Age	nt is probably Carcinogenic to humans
DEV	CA EPA - Prop 65		Developmental	toxicity
	US EPA - Priority PBTs (NWMP))	Priority PBT	
РВТ				
PBT PBT	WA DoE - PBT		PBT	
	WA DoE - PBT US EPA - Toxics Release Invent	tory PBTs	PBT	

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HPD v2.3 created via HPDC Builder Page 27 of 38





REP		
	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
REP	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
REP	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
GEN	МАК	Germ Cell Mutagen 3a
REP	CA EPA - Prop 65	Reproductive Toxicity - Female
REP	CA EPA - Prop 65	Reproductive Toxicity - Male
CAN	GHS - Korea	H350 - May cause cancer [Carcinogenicity - Category 1]
REP	GHS - Korea	H360 - May damage fertility or the unborn child [Reproductive toxicity - Category 1]
REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1A]
DEV	GHS - Australia	H360Df - May damage the unborn child. Suspected of damaging fertility [Reproductive toxicity - Category 1A or 1B]
REP	EU - GHS (H-Statements) Annex 6 Table 3-1	H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B]
DEV	EU - GHS (H-Statements) Annex 6 Table 3-1	H362 - May cause harm to breast-fed children [Reproductive toxicity, effects on or via lactation]
REP	GHS - New Zealand	Reproductive toxicity category 1
	EC - CEPA DSL	Persistent
CAN	GHS - New Zealand	Carcinogenicity category 2
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
CAN	GHS - Japan GHS - Japan	
	·	Category 2] H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
МАМ	GHS - Japan	Category 2] H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]
MAM	GHS - Japan GHS - Australia	Category 2] H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] H341 - Suspected of causing genetic defects [Germ cel mutagenicity - Category 2] H341 - Suspected of causing genetic defects [Germ cel
MAM GEN GEN	GHS - Japan GHS - Australia GHS - Japan	Category 2] H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2] H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2] Specific target organ toxicity - repeated exposure category 1
MAM GEN GEN MAM	GHS - Japan GHS - Australia GHS - Japan GHS - New Zealand	Category 2] H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2] H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2] Specific target organ toxicity - repeated exposure category 1 Hazardous to the aquatic environment - acute category
MAM GEN GEN MAM AQU	GHS - Japan GHS - Australia GHS - Japan GHS - New Zealand GHS - New Zealand	Category 2] H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2] H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2] Specific target organ toxicity - repeated exposure category 1 Hazardous to the aquatic environment - acute category 1 Hazardous to the aquatic environment - chronic
MAM GEN GEN AQU AQU	GHS - Japan GHS - Australia GHS - Japan GHS - New Zealand GHS - New Zealand GHS - New Zealand GHS - New Zealand	Category 2] H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2] H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2] Specific target organ toxicity - repeated exposure category 1 Hazardous to the aquatic environment - acute category 1 Hazardous to the aquatic environment - chronic category 1 H400 - Very toxic to aquatic life [Hazardous to the

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HPD v2.3 created via HPDC Builder Page 28 of 38





MAM	GHS - New Zealand	Acute oral toxicity category 3
SKI	GHS - Korea	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
REP	GHS - New Zealand	Effects on or via lactation
CAN	GHS - Australia	H351 - Suspected of causing cancer [Carcinogenicity Category 2]
ADDITIONAL LISTINGS	AGENCY	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List
		Precautionary list of substances recommended for avoidance
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)	ration C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Core Restrictions
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)	ration C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)	ration C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)	ration C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Footwear, Apparel & Jewelry Products
RESTRICTED LIST	International Living Future Institu	ute (ILFI) Living Building Challenge 4.0 - Red List of Materials & Chemicals
		Red List substances to avoid in Living Building Challenge V4.0 projects
RESTRICTED LIST	International Living Future Institu	ute (ILFI) Living Building Challenge 4.0 - Red List of Materials & Chemicals
		Watch List Substances Considered for Inclusion in the Living Building Challenge Red List
	nly and are not 100% guaranteed to be pres	g the toxnet database. Residuals and impurities listed in the HPD are sent in the fabric. For additional information please check the section
	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2022-08-26 11:34:35
HAZARD DATA SOURCE		
HAZARD DATA SOURCE: %: Impurity/Residual	GreenScreen: LT-P1	RC: UNK NANO: No SUBSTANCE ROLE: Impurity/Residu

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HPD v2.3 created via HPDC Builder Page 29 of 38





HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
END	TEDX - Potential Endocrine Disr	uptors	Potential Endo	crine Disruptor	
	EC - CEPA DSL		Persistent		
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	I	
None found				No listings found on Additional Hazard Lists	
	and are not 100% guaranteed to be pres	-		als and impurities listed in the HPD are for al information please check the section	
COPPER				ID: 7440-50-8	
HAZARD DATA SOURCE: P	haros Chemical and Materials Library	HAZARD SC	REENING DATE	2022-08-26 11:34:36	
%: Impurity/Residual	GreenScreen: LT-P1	RC: UNK	NANO: No	SUBSTANCE ROLE: Impurity/Residual	
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
GEN	GHS - New Zealand	GHS - New Zealand		Germ cell mutagenicity category 1	
EYE	GHS - New Zealand		Eye irritation category 2		
	EC - CEPA DSL		Persistent		
МАМ	GHS - Japan			damage to organs [Specific target ic toxicity following single exposure -	
SKI	GHS - New Zealand		Skin sensitisati	ion category 1	
SKI	GHS - Japan		H317 - May cause an allergic skin reaction [Skin Sensitization - Category 1A]		
МАМ	GHS - New Zealand		Acute inhalatio	n toxicity category 2	
MAM	GHS - New Zealand		Acute oral toxic	city category 2	
AQU	GHS - New Zealand		Hazardous to t 1	he aquatic environment - acute category	
AQU	GHS - New Zealand		Hazardous to t category 2	he aquatic environment - chronic	

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 30 of 38





ADDITIONAL LISTINGS	AGENCY	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List
		Precautionary list of substances recommended for avoidance
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals
		Watch List Substances Considered for Inclusion in the Living Building Challenge Red List
RSENIC, INORGANIC		ID: 7440- 3
AZARD DATA SOURCE: Ph	aros Chemical and Materials Library HAZARD S GreenScreen: LT-1 RC: UNK	CREENING DATE: 2022-08-26 11:34:36
IAZARD DATA SOURCE: Ph		CREENING DATE: 2022-08-26 11:34:36
IAZARD DATA SOURCE: Ph 6: Impurity/Residual HAZARD TYPE	GreenScreen: LT-1 RC: UNK	CREENING DATE: 2022-08-26 11:34:36 NANO: No SUBSTANCE ROLE: Impurity/Residu
IAZARD DATA SOURCE: Ph	GreenScreen: LT-1 RC: UNK AGENCY AND LIST TITLES	CREENING DATE: 2022-08-26 11:34:36 NANO: No SUBSTANCE ROLE: Impurity/Residu
AAZARD DATA SOURCE: Ph 6: Impurity/Residual HAZARD TYPE CAN END	GreenScreen: LT-1 RC: UNK AGENCY AND LIST TITLES US CDC - Occupational Carcinogens	CREENING DATE: 2022-08-26 11:34:36 NANO: No SUBSTANCE ROLE: Impurity/Residu WARNINGS Occupational Carcinogen Potential Endocrine Disruptor
HAZARD DATA SOURCE: Ph 6: Impurity/Residual HAZARD TYPE CAN	GreenScreen: LT-1 RC: UNK AGENCY AND LIST TITLES US CDC - Occupational Carcinogens TEDX - Potential Endocrine Disruptors	CREENING DATE: 2022-08-26 11:34:36 NANO: No SUBSTANCE ROLE: Impurity/Residu WARNINGS Occupational Carcinogen Potential Endocrine Disruptor Carcinogen Group 1 - Substances that cause cancer i
AAZARD DATA SOURCE: Ph 6: Impurity/Residual HAZARD TYPE CAN END CAN PBT	GreenScreen: LT-1 RC: UNK AGENCY AND LIST TITLES US CDC - Occupational Carcinogens TEDX - Potential Endocrine Disruptors MAK	SCREENING DATE: 2022-08-26 11:34:36 NANO: No SUBSTANCE ROLE: Impurity/Residu WARNINGS Occupational Carcinogen Potential Endocrine Disruptor Carcinogen Carcinogen Foundational Carcinogen Carcinogen Gradinational Carcinogen
AAZARD DATA SOURCE: Ph 6: Impurity/Residual HAZARD TYPE CAN END CAN PBT	GreenScreen: LT-1 RC: UNK AGENCY AND LIST TITLES US CDC - Occupational Carcinogens TEDX - Potential Endocrine Disruptors MAK OR DEQ - Priority Persistent Pollutants German FEA - Substances Hazardous to	SCREENING DATE: 2022-08-26 11:34:36 NANO: No SUBSTANCE ROLE: Impurity/Residu WARNINGS Occupational Carcinogen Potential Endocrine Disruptor Carcinogen Group 1 - Substances that cause cancer i man Priority Persistent Pollutant - Tier 1
6: Impurity/Residual HAZARD TYPE CAN END CAN PBT MUL	GreenScreen: LT-1 RC: UNK AGENCY AND LIST TITLES US CDC - Occupational Carcinogens TEDX - Potential Endocrine Disruptors MAK OR DEQ - Priority Persistent Pollutants German FEA - Substances Hazardous to Waters	SCREENING DATE: 2022-08-26 11:34:36 NANO: No SUBSTANCE ROLE: Impurity/Residu WARNINGS Occupational Carcinogen Potential Endocrine Disruptor Carcinogen Carcinogen Group 1 - Substances that cause cancer i man Priority Persistent Pollutant - Tier 1 Class 3 - Severe Hazard to Waters
AZARD DATA SOURCE: Ph 6: Impurity/Residual HAZARD TYPE CAN END CAN PBT MUL CAN	GreenScreen: LT-1 RC: UNK AGENCY AND LIST TITLES US CDC - Occupational Carcinogens TEDX - Potential Endocrine Disruptors MAK OR DEQ - Priority Persistent Pollutants German FEA - Substances Hazardous to Waters IARC IARC	SCREENING DATE: 2022-08-26 11:34:36 NANO: No SUBSTANCE ROLE: Impurity/Residu WARNINGS Occupational Carcinogen Potential Endocrine Disruptor Carcinogen Group 1 - Substances that cause cancer i man Priority Persistent Pollutant - Tier 1 Class 3 - Severe Hazard to Waters Group 1 - Agent is Carcinogenic to humans
AZARD DATA SOURCE: Ph 6: Impurity/Residual HAZARD TYPE CAN END CAN PBT MUL CAN CAN	GreenScreen: LT-1 RC: UNK AGENCY AND LIST TITLES US CDC - Occupational Carcinogens TEDX - Potential Endocrine Disruptors MAK OR DEQ - Priority Persistent Pollutants German FEA - Substances Hazardous to Waters IARC CA EPA - Prop 65	SCREENING DATE: 2022-08-26 11:34:36 NANO: No SUBSTANCE ROLE: Impurity/Residu WARNINGS Occupational Carcinogen Potential Endocrine Disruptor Carcinogen Group 1 - Substances that cause cancer i man Priority Persistent Pollutant - Tier 1 Class 3 - Severe Hazard to Waters Group 1 - Agent is Carcinogenic to humans Carcinogen
AZARD DATA SOURCE: Ph 6: Impurity/Residual HAZARD TYPE CAN END CAN PBT MUL CAN CAN CAN	GreenScreen: LT-1 RC: UNK AGENCY AND LIST TITLES US CDC - Occupational Carcinogens TEDX - Potential Endocrine Disruptors MAK OR DEQ - Priority Persistent Pollutants German FEA - Substances Hazardous to Waters IARC CA EPA - Prop 65 US NIH - Report on Carcinogens	SCREENING DATE: 2022-08-26 11:34:36 NANO: No SUBSTANCE ROLE: Impurity/Residu WARNINGS Occupational Carcinogen Potential Endocrine Disruptor Carcinogen Group 1 - Substances that cause cancer i man Priority Persistent Pollutant - Tier 1 Class 3 - Severe Hazard to Waters Group 1 - Agent is Carcinogenic to humans Carcinogen Known to be a human Carcinogen Known to be a human Carcinogen
AZARD DATA SOURCE: Ph 6: Impurity/Residual HAZARD TYPE CAN END CAN PBT MUL CAN CAN CAN CAN CAN CAN	GreenScreen: LT-1 RC: UNK AGENCY AND LIST TITLES US CDC - Occupational Carcinogens TEDX - Potential Endocrine Disruptors MAK OR DEQ - Priority Persistent Pollutants German FEA - Substances Hazardous to Waters IARC CA EPA - Prop 65 US NIH - Report on Carcinogens G&L - Neurotoxic Chemicals	SCREENING DATE: 2022-08-26 11:34:36 NANO: No SUBSTANCE ROLE: Impurity/Residu WARNINGS Occupational Carcinogen Potential Endocrine Disruptor Carcinogen Group 1 - Substances that cause cancer i man Priority Persistent Pollutant - Tier 1 Class 3 - Severe Hazard to Waters Group 1 - Agent is Carcinogenic to humans Carcinogen Known to be a human Carcinogen Developmental Neurotoxicant
AZARD DATA SOURCE: Ph 6: Impurity/Residual HAZARD TYPE CAN END CAN PBT MUL CAN CAN CAN CAN CAN CAN CAN CAN	GreenScreen: LT-1 RC: UNK AGENCY AND LIST TITLES US CDC - Occupational Carcinogens TEDX - Potential Endocrine Disruptors MAK OR DEQ - Priority Persistent Pollutants German FEA - Substances Hazardous to Waters IARC CA EPA - Prop 65 US NIH - Report on Carcinogens G&L - Neurotoxic Chemicals US EPA - IRIS Carcinogens US EPA - EPCRA Extremely Hazardous	NANO: No SUBSTANCE ROLE: Impurity/Residu WARNINGS Occupational Carcinogen Occupational Carcinogen Impurity/Residu Potential Endocrine Disruptor Impurity/Residu Carcinogen Group 1 - Substances that cause cancer in man Impurity/Residu Priority Persistent Pollutant - Tier 1 Impurity/Residu Class 3 - Severe Hazard to Waters Impurity/Residu Group 1 - Agent is Carcinogenic to humans Impurity/Residu Carcinogen Impurity/Residu Known to be a human Carcinogen Impurity/Residu Developmental Neurotoxicant Impurity/Residu (1986) Group A - Human Carcinogen Impurity/Residu

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HPD v2.3 created via HPDC Builder Page 31 of 38





CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]
CAN	GHS - Korea	H350 - May cause cancer [Carcinogenicity - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
МАМ	EU - GHS (H-Statements) Annex 6 Table 3-1	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]
МАМ	EU - GHS (H-Statements) Annex 6 Table 3-1	H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]
CAN	GHS - New Zealand	Carcinogenicity category 1
	EC - CEPA DSL	Persistent
мам	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
GEN	GHS - Australia	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]
МАМ	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1
МАМ	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
МАМ	GHS - New Zealand	Acute inhalation toxicity category 2
МАМ	GHS - New Zealand	Acute oral toxicity category 2
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 1
AQU	GHS - Korea	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	GHS - Korea	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
REP	GHS - Japan	H361 - Suspected of damaging fertility or the unborn child [Toxic to reproduction - Category 2]
MAM	Québec CSST - WHMIS 1988	Class D1A - Very toxic material causing immediate and serious toxic effects
GEN	GHS - New Zealand	Germ cell mutagenicity category 2
MAM	GHS - Malaysia	H300 - Fatal if swallowed [Acute toxicity (oral) - Category 1 or 2]
MAM	GHS - Malaysia	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]
МАМ	GHS - Australia	H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]
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Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 32 of 38





MAM	GHS - Australia	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]
AQU	GHS - Malaysia	H410 - Very toxic to aquatic life with long lasting effec [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - Malaysia	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
МАМ	GHS - Korea	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]
ADDITIONAL LISTINGS	AGENCY	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List
		Precautionary list of substances recommended for avoidance
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Core Restrictions
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals
		Red List substances to avoid in Living Building Challenge V4.0 projects
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals
		Watch List Substances Considered for Inclusion in the Living Building Challenge Red List
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Cosmetics & Personal Care Products

information purposes only and are not 100% guaranteed to be present in the fabric. For additional information please check the section INVENTORY AND SCREENING NOTES.

PIGMENT

%: 0.1000 - 3.0000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database. Residuals and impurities listed in the HPD are for information purposes only and are not 100% guaranteed to be present in the fabric. For additional information please check the section INVENTORY AND SCREENING NOTES.

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 33 of 38





OTHER MATERIAL NOTES: This is an inorganic pigment with no hazardous ingredients. The manufacturer of the substance would not release any information beyond the SDS. The SDS lists no hazardous or regulated ingredients.

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD S	CREENING DATE:	2022-08-26 11:34:23
%: 0.5000 - 7.5000	GreenScreen: BM-4	RC: UNK	NANO: No	SUBSTANCE ROLE: Solvent
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warr	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	
EXEMPT	European Union / European Cor	nmission	EU - REACH Exe	emptions
	(EU EC)		Exempted from safety	REACH Annex IV listing due to intrinsic
POSITIVE LIST	US Environmental Protection Ag EPA)	jency (US	US EPA - DfE SO	CIL
			Green Circle - Ve	erified Low Concern
SUBSTANCE NOTES:				
PROPYLENE GLYCOL				ID: 57-55
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD S	CREENING DATE:	2022-08-26 11:34:24
%: 0.2500 - 5.0000	GreenScreen: BM-2	RC: UNK	NANO: No	SUBSTANCE ROLE: Solvent
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
END	TEDX - Potential Endocrine Disr	uptors	Potential Endoc	rine Disruptor
END ADDITIONAL LISTINGS		uptors		rine Disruptor
	TEDX - Potential Endocrine Disr AGENCY US Environmental Protection Ag		Potential Endoc	
ADDITIONAL LISTINGS	TEDX - Potential Endocrine Disr		Potential Endocr NOTIFICATION US EPA - DfE SC	
ADDITIONAL LISTINGS	TEDX - Potential Endocrine Disr AGENCY US Environmental Protection Ag EPA)	gency (US	Potential Endoce NOTIFICATION US EPA - DfE SO Green Circle - Ve	CIL erified Low Concern
ADDITIONAL LISTINGS POSITIVE LIST SUBSTANCE NOTES: 1 dipropylene glycol (<0.29	TEDX - Potential Endocrine Disr AGENCY US Environmental Protection Ag EPA)	gency (US	Potential Endoce NOTIFICATION US EPA - DfE SO Green Circle - Ve	CIL erified Low Concern n max), water (0.2 wt% max), and
ADDITIONAL LISTINGS POSITIVE LIST SUBSTANCE NOTES: 1 dipropylene glycol (<0.29 1-HEXADECYLPYRIDINIU	TEDX - Potential Endocrine Disr AGENCY US Environmental Protection Ag EPA)	gency (US vrides (1 ppm	Potential Endoci NOTIFICATION US EPA - DfE S0 Green Circle - Vo max), iron (1.0 ppr	CIL erified Low Concern n max), water (0.2 wt% max), and ID: 6004-24

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 34 of 38







HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
HAZAND ITFE					
SKI	GHS - New Zealand		Skin irritation c	ategory 2	
EYE	GHS - New Zealand		Eye irritation ca	tegory 2	
МАМ	GHS - New Zealand		Acute inhalation	n toxicity category 2	
МАМ	GHS - New Zealand		Acute oral toxic	ity category 2	
AQU	GHS - New Zealand		Hazardous to th 1	ne aquatic environment - a	cute category
AQU	GHS - New Zealand		Hazardous to th category 1	ne aquatic environment - c	hronic
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION		
None found			No	listings found on Addition	al Hazard Lists
SUBSTANCE NOTES: 6004-	24-6, CPC, Hexadecylpyridinium chlori	de, monohydr	rate C16-alkylpyri	dinium chloride (in propyle	ne glycol) ID: 34590-94-
	haros Chemical and Materials Library			2022-08-26 11-34-32	ID. 34390-94-
%: Impurity/Residual	GreenScreen: LT-UNK	RC: UNK	NANO: No	SUBSTANCE ROLE: Imp	urity/Residual
HAZARD TYPE					,
	AGENCY AND LIST TITLES		WARNINGS		• . I I I I :- +-
None found			No wai	nings found on HPD Priori	ty Hazard Lists
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION		
POSITIVE LIST	US Environmental Protection Ag	ency (US	US EPA - DfE SCIL		
	FPA)				
	EPA)		Green Circle - V	Verified Low Concern	
information purposes only a INVENTORY AND SCREENI	uals and impurities were screened usin nd are not 100% guaranteed to be pres	-	database. Residua	als and impurities listed in	the section
INVENTORY AND SCREEN	uals and impurities were screened usin nd are not 100% guaranteed to be pres	sent in the fab	database. Residua	als and impurities listed in I information please check	the section
INVENTORY AND SCREENI	uals and impurities were screened usin ind are not 100% guaranteed to be pres NG NOTES.	sent in the fab	database. Residua	als and impurities listed in I information please check	ID: 7439-89-
INVENTORY AND SCREENI	uals and impurities were screened usin ind are not 100% guaranteed to be pres NG NOTES.	Sent in the fab	database. Residua ric. For additiona	als and impurities listed in I information please check 2022-08-26 11:34:33	ID: 7439-89-
INVENTORY AND SCREENI INVENTORY AND SCREENI IRON HAZARD DATA SOURCE: PI %: Impurity/Residual	uals and impurities were screened usin ind are not 100% guaranteed to be pres NG NOTES. haros Chemical and Materials Library GreenScreen: LT-P1	HAZARD SC RC: UNK	database. Residua ric. For additiona CREENING DATE: NANO: No	als and impurities listed in I information please check 2022-08-26 11:34:33 SUBSTANCE ROLE: Imp	ID: 7439-89-
IRON HAZARD DATA SOURCE: PI %: Impurity/Residual HAZARD TYPE	luals and impurities were screened usin ind are not 100% guaranteed to be pres NG NOTES. haros Chemical and Materials Library GreenScreen: LT-P1 AGENCY AND LIST TITLES	HAZARD SC RC: UNK	database. Residua ric. For additiona CREENING DATE: NANO: No WARNINGS	als and impurities listed in I information please check 2022-08-26 11:34:33 SUBSTANCE ROLE: Imp	ID: 7439-89-
INVENTORY AND SCREENI INVENTORY AND SCREENI IRON HAZARD DATA SOURCE: PI %: Impurity/Residual HAZARD TYPE	uals and impurities were screened usin ind are not 100% guaranteed to be pres NG NOTES. haros Chemical and Materials Library GreenScreen: LT-P1 AGENCY AND LIST TITLES TEDX - Potential Endocrine Disr	HAZARD SC RC: UNK	database. Residua ric. For additiona CREENING DATE: NANO: No WARNINGS Potential Endoo	als and impurities listed in I information please check 2022-08-26 11:34:33 SUBSTANCE ROLE: Imp	ID: 7439-89-

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 35 of 38







SUBSTANCE NOTES: Residuals and impurities were screened using the toxnet database. Residuals and impurities listed in the HPD are for information purposes only and are not 100% guaranteed to be present in the fabric. For additional information please check the section INVENTORY AND SCREENING NOTES.

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 36 of 38





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	CDPH Standard Method V1.2 (Sectio	n 01350/CHPS) - Classroom & Office scenario
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: All facilities included	ISSUE DATE: 2020-07-28 EXPIRY DATE:	CERTIFIER OR LAB: Berkeley Analytical
	LAFINI DATE.	Analytical

CERTIFICATION AND COMPLIANCE NOTES: This fabric will be tested the first quarter of 2021. It is a new product offering and will be tested with Berkeley Analytical.

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.

CONTRACT SERIES TWO SHADING SYSTEM

MANUFACTURER (OR GENERIC): Rollease Acmeda

HPD URL: https://hpdrepository.hpd-collaborative.org/repository/HPDs/430_Rollease_Acmeda_Contract_Series_Two_Shading_System.pdf ACCESSORY TYPE: Other

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: This is a system for use with Mesa fabric.

Section 5: General Notes

This material was screened to 100 ppm. All residuals and impurities were considered and noted in the HPD. Please note: Residuals and impurities were screened using the toxnet database. This database is a general database and lists possible residuals and impurities for chemicals and substances as reported in peer-reviewed studies or other credible documentation. Just because a chemical could have the impurity listed in the database does not mean that this material contains that impurity. Actual impurities are a product of the sourced product and its suppliers. Residuals and impurities listed in the HPD are for information purposes only and are not 100% guaranteed to be present in the fabric.

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 37 of 38





TEXSTYLE

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Rollease Acmeda ADDRESS: 200 Harvard Ave Stamford CT 06902, United States WEBSITE: https://www.rolleaseacmeda.com/us/home CONTACT NAME: Lindsey DeSalvo TITLE: Product Manager- Fabric PHONE: 203-590-5259 EMAIL: lindsey.desalvo@rolleaseacmeda.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

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)

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

LT-P1 List Translator Possible 1 (Possible Benchmark-1) LT-1 List Translator 1 (Likely Benchmark-1) LT-UNK List Translator Benchmark Unknown NoGS No GreenScreen.

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, www.greenscreenchemicals.org, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

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.

Mesa Light Filtering Fabric by Texstyle

HPD v2.3 created via HPDC Builder Page 38 of 38

