

CLASSIFICATION: 12 05 13 Fabrics

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Dovetail upholstery is made from 100% eco intelligent polyester, which is Cradle-to-Cradle® Gold certified for reduced environmental impact and human safety.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold level

- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities

Residuals/Impurities Considered in 0 of 1 Materials

Explanation(s) provided for Residuals/Impurities?

- Yes No

Are All Substances Above the Threshold Indicated:

Characterized

Percent Weight and Role Provided?

- Yes No

Screened

Using Priority Hazard Lists with Results Disclosed?

- Yes No

Identified

Name and Identifier Provided?

- Yes No

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

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

BDMV FABRIC CONTENTS | POLYETHYLENE TEREPHTHALATE (PET) LT-1 UNK FIBER LUBRICANTS TITANIUM DIOXIDE LT-1 | CAN | END CARBON BLACK LT-1 | CAN ANTIMONY COMPOUNDS, INORGANIC LT-1 | AQU | CAN ANTIMONY COMPOUNDS LT-P1 | AQU NON HALOGENATED FLAME RETARDANTS NoGS FLAME RETARDANTS, NON-HALOGENATED, NON-ORGANOPHOSPHOROUS NoGS FLAME RETARDANTS NoGS MANGANESE OXIDE LT-UNK NITROGEN NoGS ZINC OXIDE BM-1 | RES | AQU | MUL BIOCIDAL COATINGS / BIOCIDAL ADDITIVES (GADSL LIST) NoGS AZOCOLLOURANTS AND AZODYES NoGS BIOCIDES NoGS ANTIMICROBIALS NoGS ZINC COMPOUNDS LT-UNK POLYCYCLIC AROMATIC HYDROCARBONS LT-1 | PBT | CAN POLYCYCLIC AROMATIC HYDROCARBONS (PAH) LT-1 | PBT POLYCYCLIC AROMATIC COMPOUNDS - COMPOUND GROUP LT-1 | PBT ANTIMONY TRIOXIDE BM-1 | MAM | AQU | CAN | MUL]

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

INVENTORY AND SCREENING NOTES:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: UL/GreenGuard Certified
Multi-attribute: Cradle to Cradle Certified - Silver (V3.1)
Management: ISO 14001:2004 Environmental management systems
Management: ISO 9001:2008 Quality management systems

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2018-03-08
PUBLISHED DATE: 2018-03-08
EXPIRY DATE: 2021-03-08

Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

BDMV FABRIC CONTENTS

#: 100.0000 - 100.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities not considered.

OTHER MATERIAL NOTES:

POLYETHYLENE TEREPHTHALATE (PET)

ID: 25038-59-9

#: 89.0000 - 99.9000

GS: LT-UNK

RC: None

NANO: No

ROLE: Warp/weft.

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: CAS # 27937-63-9 is also part of the polyester polymer.

FIBER LUBRICANTS

ID: Undisclosed

#: 0.0200 - 3.0000

GS:

RC: None

NANO: No

ROLE: N/A

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

TITANIUM DIOXIDE

ID: 13463-67-7

#: 0.0100 - 5.0000

GS: LT-1

RC: None

NANO: No

ROLE: N/A

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

CANCER

MAK

Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES:

CARBON BLACK

ID: **1333-86-4**

#: **0.0100 - 3.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **N/A**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES:

ANTIMONY COMPOUNDS, INORGANIC

ID: **Not registered**

#: **Impurity/Residual** GS: **LT-1** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ANTIMONY COMPOUNDS

ID: **Not registered**

#: **Impurity/Residual** GS: **LT-P1** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects

SUBSTANCE NOTES: Imported from Pharos process chemistry research

NON HALOGENATED FLAME RETARDANTS

ID: **Not registered**

#: **Impurity/Residual** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
----------	----------------------------	--

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

FLAME RETARDANTS, NON-HALOGENATED, NON-ORGANOPHOSPHOROUS

ID: **Not registered**

%: **Impurity/Residual** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

FLAME RETARDANTS

ID: **Not registered**

%: **Impurity/Residual** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

MANGANESE OXIDE

ID: **1317-34-6**

%: **Impurity/Residual** GS: **LT-UNK** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

NITROGEN

ID: **7727-37-9**

%: **Impurity/Residual** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ZINC OXIDE

ID: **1314-13-2**

%: **Impurity/Residual** GS: **BM-1** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: Imported from Pharos process chemistry research

BIOCIDAL COATINGS / BIOCIDAL ADDITIVES (GADSL LIST)

ID: **Not registered**

%: **Impurity/Residual** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

AZOCOLOURANTS AND AZODYES

ID: **Not registered**

%: **Impurity/Residual** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

BIOCIDES

ID: **Not registered**

%: **Impurity/Residual** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ANTIMICROBIALS

ID: **Not registered**

%: **Impurity/Residual** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ZINC COMPOUNDSID: **Not registered**

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
-----------------------------	-------------------	----------------	-----------------	--------------------------------

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

POLYCYCLIC AROMATIC HYDROCARBONSID: **130498-29-2**

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
-----------------------------	-----------------	----------------	-----------------	--------------------------------

HAZARDS:	AGENCY(IES) WITH WARNINGS:
PBT	WA DoE - PBT
CANCER	US NIH - Report on Carcinogens
PBT	US EPA - Toxics Release Inventory PBTs
PBT	OSPAR - Priority PBTs & EDs & equivalent concern

Reasonably Anticipated to be Human Carcinogen

SUBSTANCE NOTES: Imported from Pharos process chemistry research

POLYCYCLIC AROMATIC HYDROCARBONS (PAH)ID: **Not registered**

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
-----------------------------	-----------------	----------------	-----------------	--------------------------------

HAZARDS:	AGENCY(IES) WITH WARNINGS:
PBT	WA DoE - PBT
PBT	US EPA - Toxics Release Inventory PBTs
PBT	OSPAR - Priority PBTs & EDs & equivalent concern

PBT - Chemical for Priority Action

SUBSTANCE NOTES: Imported from Pharos process chemistry research

POLYCYCLIC AROMATIC COMPOUNDS - COMPOUND GROUPID: **Not registered**

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
-----------------------------	-----------------	----------------	-----------------	--------------------------------

HAZARDS:	AGENCY(IES) WITH WARNINGS:
PBT	US EPA - Toxics Release Inventory PBTs

ANTIMONY TRIOXIDE

ID: **1309-64-4**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
%: Impurity/Residual	GS: BM-1 RC: UNK NANO: No ROLE: Impurity/Residual
MAMMALIAN	EU - R-phrases R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases R22 - Harmful if Swallowed
ACUTE AQUATIC	EU - R-phrases R51 - Toxic to Aquatic Organisms
CANCER	IARC Group 2B - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65 Carcinogen
CHRON AQUATIC	EU - GHS (H-Statements) H411 - Toxic to aquatic life with long lasting effects
CANCER	EU - GHS (H-Statements) H351 - Suspected of causing cancer
MULTIPLE	ChemSec - SIN List CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CANCER	MAK Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Japan - GHS Carcinogenicity - Category 1B

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

UL/GreenGuard Certified

CERTIFYING PARTY: Third Party
 APPLICABLE FACILITIES: N/A
 CERTIFICATE URL:

ISSUE DATE: 2003-04-30
 EXPIRY DATE: 2018-10-29
 CERTIFIER OR LAB: UL Environment Inc.

CERTIFICATION AND COMPLIANCE NOTES: Commercial furniture and furnishings are tested in accordance with ANSI/BIFMA M7.1-2011(R2016) and determined to comply with ANSI/BIFMA X7.1-2011(R2016) and ANSI/BIFMA e3-2014e Credit 7.6.1. Seating products are modeled in the seating environment with a ventilation rate of 24.8 m³/hour. Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.

MULTI-ATTRIBUTE

Cradle to Cradle Certified - Silver (V3.1)

CERTIFYING PARTY: Third Party
 Dovetail K1150
 hpdrepository.hpd-collaborative.org

ISSUE DATE: 2016-06- EXPIRY DATE: 2018- CERTIFIER OR LAB: McDonough

HPD v2.1 created via HPDC Builder Page 7 of 10

CERTIFICATION AND COMPLIANCE NOTES:

MANAGEMENT

ISO 14001:2004 Environmental management systems

CERTIFYING PARTY: Third Party

ISSUE DATE:2017-07-

EXPIRY DATE: 2020-

CERTIFIER OR LAB: NSF

APPLICABLE FACILITIES: N/A

17

07-09

International

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: N/A

MANAGEMENT

ISO 9001:2008 Quality management systems

CERTIFYING PARTY: Third Party

ISSUE DATE:2016-03-

EXPIRY DATE: 2018-

CERTIFIER OR LAB: NSF ISR

APPLICABLE FACILITIES: N/A

24

07-02

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: N/A

MULTI-ATTRIBUTE

NSF/ANSI 336: Sustainability Standard for Commercial Furnishings Fabric - 2011 Gold

CERTIFYING PARTY: Self-declared

ISSUE DATE:2014-07-

EXPIRY DATE: 2019-

CERTIFIER OR LAB: None

APPLICABLE FACILITIES: N/A

22

01-31

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: N/A

+ 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.

No accessories are required for this product.

E Section 5: General Notes

Textile warehousing and shipping from KnollTextiles, LUBIN Building, East Greenville, Pennsylvania facility. The East Greenville Pennsylvania textile warehouse and shipping, furniture manufacturing and commercial interiors facility is LEED Existing Building Gold Certified. This facility is also ISO 14001 and ISO 9001 Certified. Textiles can be purchased without finishes as a custom order to meet specific environmental standards, however, it may not comply with some contract market standards. Prior evaluation and approval is required by KnollTextiles. Confidentiality Notice: This data is intended for the use of the individual or entity to which it is addressed and may contain confidential information that is privileged, confidential and exempt from disclosure under applicable law. Information has been provided by the supplier to the best of their knowledge at time of completion.

MANUFACTURER INFORMATION

MANUFACTURER: **KnollTextiles**
ADDRESS: **1235 Water Street**
East Greenville Pennsylvania 18041, USA
WEBSITE:
<https://www.knoll.com/shop/knolltextiles>

CONTACT NAME: **KnollTextiles**
TITLE: **N/A**
PHONE: **866-565-5858**
EMAIL: **textiles_orders@knoll.com**

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

Recycled Types

PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,*
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.*

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

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

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.