

HPD UNIQUE IDENTIFIER: 20805

CLASSIFICATION: 12 05 13 Fabrics

PRODUCT DESCRIPTION: Relativity is a wool, nylon blend upholstery fabric used for commercial upholstery and seating.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold level

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

Residuals/Impurities

- Considered
- Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?

- Yes No

All Substances Above the Threshold Indicated Are:

Characterized Yes Ex/SC Yes No

% weight and role provided for all substances except SC substances characterized according to SC guidance.

Screened Yes Ex/SC Yes No

All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.

Identified Yes Ex/SC Yes No

All substances disclosed by Name (Specific or Generic) and Identifier except SC substances identified according to SC guidance.

CONTENT IN DESCENDING ORDER OF QUANTITY

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

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY

GREENSCREEN SCORE | HAZARD TYPE

RELATIVITY 11608 [SC:SC: WOOL Not Screened NYLON-66 LT-UNK]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-UNK

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

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: N/A

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1 and Option 2

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2019-04-03

PUBLISHED DATE: 2020-06-24

EXPIRY DATE: 2022-04-03



Section 2: Content in Descending Order of Quantity

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

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

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

RELATIVITY 11608

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: The product is made from 85% wool and 15% nylon in a 5 colorway range that uses various combinations of 16 different dyes and 6 chemicals of which 5 are for providing colour to the fibre and 1 chemical is used for protection against moths and carpet beetles. No chemicals listed on the Living Building Challenge Red List and no AZO or heavy metal dyes are used in production. Safety Data Sheets confirm that any risks associated with their use is in the manufacturing stage and not in the end product because the dyes are chemically bonded to the wool and nylon.

OTHER PRODUCT NOTES: Relativity one of our reversible ESD wool upholstery combines different textures woven seamlessly together to produce two different scales of design for chairs, settees, banquettes, wall panels. Made from fine Australian wool with 87,000 Martindale rubs. Relativity is suitable for Heavy Duty Upholstery use. Available in 5 new colours, look at your fitout in a new light with Relativity.

<https://www.textilemania.com.au/product/relativity>

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

HAZARD SCREENING DATE: **2019-04-03**

%: **85.0000** GS: **Not Screened** RC: **None** NANO: **No** SUBSTANCE ROLE: **Textile component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening not performed		

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Animal-based materials

Identifier: Wool

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

Wool has no CAS RN# and cannot be identified.

Wool is a natural, rapidly renewable resource that is biodegradable, flame retardant and stain resistant.

Wool contains no VOC's and can absorb VOC's from the surrounding environment making the atmosphere safer.

NYLON-66

ID: **32131-17-2**

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

HAZARD SCREENING DATE: **2019-04-03**

%: **15.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Textile component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Nylon is blended with the wool fibre, to increase the strength and durability of the woollen upholstery, resulting in a high abrasion test result on the Martindale rub test.

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

N/A

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2018-**

EXPIRY DATE:

CERTIFIER OR LAB: **N/A**

APPLICABLE FACILITIES: **N/A**

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CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **The product is made from Australian wool, a natural, rapidly renewable resource that is biodegradable and can absorb VOC's, improving the air quality of the surrounding environment.**

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.

Section 5: General Notes

Wool for Interior Textiles: Wool fabrics will stand up to years of everyday wear and tear and still bounce back. Wool will maintain a clean and 'as new' appearance for much longer than other fiber type fabric. Upholstery is more exposed to greasy soiling because of the frequent handling it receives, especially on the arms of chairs. The ability to resist soiling and shed soil during cleaning allows Wool fabrics to retain their appearance when others become matted and dirty. Wool's inherent resistance to flame and heat make it one of the safest of all upholstery fibres. Wool can readily absorb and dissipate the body's perspiration, preventing the build-up of heat and dampness. These are major reasons why wool fabrics have been chosen for office interiors and in cars and all forms of public transport. Wool is the natural choice for soft furnishings because of its comfort and warmth, long-life performance ratings and safety factors. More than any other fabric on earth - wool combines more luxury and fabric performance due to its appearance retention, tactile properties, drape, elasticity and wrinkle resistance.

Wool Natural Properties: Wool is naturally flame resistant; it is difficult to ignite and has low flame spread and heat release properties. Wool does not melt or drip and has superior self extinguishing properties. Wool has an ability to shed water, yet readily admit water vapour. Microscopic pores of the wool fibre effectively respond to changes in humidity, making fabric suitable for every climate. Wool can absorb up to one-third of its own weight in vapour depending on relative humidity, while Synthetic fibers can only absorb 2-3 per cent of moisture before they begin to feel wet. Although Wool has a very high resistance to fading and colour change, like all fibers it will change if left in direct sunlight for a period of time. Because wool is a protein fibre, it has an affinity for acid, basic, reactive and disperses dyes. Dyes chemically bond inside the wool fibres where they hold fast.

Wool the Natural Fibre: For performance measured over time, wool products are low in cost and high in value. Wool has filled our lives with comfort and warmth for thousands of years. When we are surrounded by the natural luxury of wool, its remarkable strength and softness give strong feelings of safety and security. Wool provides us with a personal environment that is health-enhancing because it is a natural fibre. Wool disperses moisture from our skin, provides even warmth and body temperature, resists flame and static electricity and helps to reduce the stressful noise levels that surround us every day. And yet, while we have been living with the qualities of wool throughout the ages, wool is

also a fibre for the future. Regardless of the advances mankind makes in the creation of new synthetics, technology will never recreate the comfort, strength, softness and security only wool can offer. Source: www.woolfurnishings.com, The Interior Textiles Division of The Woolmark Company



MANUFACTURER INFORMATION

MANUFACTURER: **textile mania**

ADDRESS: **560 SWAN ST**

RICHMOND Victoria 3121, Australia

WEBSITE: **https://www.textilemania.com.au**

CONTACT NAME: **Jim Frame**

TITLE: **Sales and Marketing Director**

PHONE: **+61 3 9427 1166**

EMAIL: **jim_frame@textilemania.com.au**

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

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

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)

LT-P1 List Translator Possible 1 (Possible Benchmark-1)

LT-1 List Translator 1 (Likely Benchmark-1)

LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)

NoGS No GreenScreen.

Recycled Types

PreC Pre-consumer recycled content

PostC Post-consumer recycled content

UNK Inclusion of recycled content is unknown

None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material

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

Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology

Third Party Verified Verification by independent certifier approved by HPDC

Preparer Third party preparer, if not self-prepared by manufacturer

Applicable facilities Manufacturing sites to which testing applies

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

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

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

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

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