Crypton Technology by Architex International

Health Product Declaration v2.1

CLASSIFICATION: N/A

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Crypton Super Fabrics meet demanding specifications for resistance to abrasion, drink spills, odor, liquid penetration, and water- and oil-based stains. A Crypton Super Fabric is a finished fabric consisting of (1) the base fabric and (2) Crypton Technology; it is produced jointly by Crypton and a licensed weaver/knitter. Crypton Technology consists of the materials and processes utilized by Crypton's manufacturing plant in Kings Mountain, NC. Base fabrics are woven or knit by multiple manufacturers licensed by Crypton. Material content for the base fabric is to be provided by the licensed producer. This HPD is applicable to Crypton Technology used in Crypton Super Fabric and its subset categories Crypton Green and Crypton ACT.

Section 1: Summary

Basic Method / Material Threshold

CONTENT INVENTORY

Inventory Reporting Format
- ○ Nested Materials Method
- ◉ Basic Method

Threshold Disclosed Per
- ◉ Material
- ○ Product

Threshold level
- ○ 100 ppm
- ○ 1,000 ppm
- ○ Per GHS SDS
- ○ Per OSHA MSDS
- ◉ Other

Residuals/Impurities
- ◉ Considered
- ○ Partially Considered
- ○ Not Considered

Explanation(s) provided for Residuals/Impurities?
- ○ Yes ◉ No

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

CRYPTON SUPER FABRIC [CRYPTON TECHNOLOGY - MOISTURE BARRIER n/a WATER AND OIL REPELLENT, HIGH MOLECULAR WEIGHT POLYMER N/a ODOR AND MOLD/MILDEW RESISTANT ADDITIVE n/a *<0.1% MATERIALS RESTRICTED BY NSF 336* n/a]

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

INVENTORY AND SCREENING NOTES:

This HPD was created with Basic Inventory. NSF 336 requires each Crypton Technology raw material, not just the total formula, to be inventoried to at least 1k ppm. Hazard lists: Carcinogenicity: International Agency for Research on Cancer Annual Report on Carcinogens, National Toxicology Program Integrated Risk Information System, USEPA EU Risk Phrases - Programme on Safety and Health at Work and the Environment, International Labor Organisation Reproductive toxicants: State of California's Safe Drinking Water Toxic Enforcement ACT of 1986 (Proposition 65) Globally Harmonized System for Classification and Labeling PBTs: Stockholm Convention (persistent organic pollutants) US - Canada Bi-National list, TRI PBT List, RCRA Waste Minimization, EU RoHS, Washington State List

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

No certifications have been added to this HPD.

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?
- ○ Yes
- ◉ No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2017-07-06
PUBLISHED DATE: 2018-01-25
EXPIRY DATE: 2020-07-06

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

CRYPTON SUPER FABRIC

MATERIAL THRESHOLD: Other

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES:

OTHER PRODUCT NOTES: Avg weight for Crypton Super Fabric = 11.5 oz / sq yd (390 g / sq m); avg base fabric weight = 73% 0.1% NSF 336 prereq hazards

CRYPTON TECHNOLOGY - MOISTURE BARRIER

ID: **Undisclosed**

%: **26.0000** GS: **n/a** RC: **UNK** NANO: **No** ROLE: **Barrier**

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

SUBSTANCE NOTES: On average, 26% of Crypton Super Fabric is a moisture barrier consisting of acrylic and/or urethane polymer (*up to 20% bio-based content). Substances' percentages will change as the base fabric weight changes. Base fabric weight can vary about + or - 50% depending upon construction variables such as yarn size, yarn type and level of texture/pile. <0.1% materials restricted by NSF 336

WATER AND OIL REPELLENT, HIGH MOLECULAR WEIGHT POLYMER

ID: **Undisclosed**

%: **0.9000** GS: **N/a** RC: **None** NANO: **No** ROLE: **easy clean**

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

SUBSTANCE NOTES: Less than 1% of Crypton Super Fabric is a water and oil repellent polymer with high molecular weight. It consists of an acrylic or urethane backbone and short-chain fluorotelomer. <0.1% materials restricted by NSF 336

ODOR AND MOLD/MILDEW RESISTANT ADDITIVE

ID: **Undisclosed**

%: **0.0300** GS: **n/a** RC: **None** NANO: **No** ROLE: **fabric protect**

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

SUBSTANCE NOTES: Less than one-tenth of one percent of Crypton Super Fabric is an EPA-registered additive resistant to the growth of mold/mildew and odor-causing bacteria. <0.1% materials restricted by NSF 336

<0.1% MATERIALS RESTRICTED BY NSF 336 ID: **Undisclosed**

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

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

SUBSTANCE NOTES: Every Crypton Technology raw material was assessed according to prerequisites in NSF 336's Safety of Materials (inventory threshold 1k ppm). Residuals and impurities not identified in NSF 336 have not been quantified. 0.00% is shown here only because Adobe software requires a number; actual value has not been quantified.

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.

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

NSF/ANSI 336: Sustainability Assessment for Commercial Furnishings Fabric is the principal standard used to evaluate and certify sustainability of commercial furnishing fabrics over their entire product life cycle. Sustainability attributes include material safety, water consumption and quality, energy consumption, manufacturing and product emissions, recycling practices, and social accountability. NSF/ANSI 336 was developed by the NSF National Center for Sustainability Standards (NCSS) through a consensus-based public process with a multi-stakeholder group of manufacturers, suppliers, regulatory agencies, academicians and other industry participants. This standard addresses the environmental, economic and social aspects of furnishing fabric products. (http://www.nsf.org/services/by-industry/sustainability-environment/sustainability-standards-protocols/furnishings-fabric) Every Crypton Technology raw material was assessed according to pre-requisites in NSF 336's Safety of Materials (inventory threshold 1k ppm). Supplier responses were provided in writing.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Architex International**
ADDRESS: **513 Crypton Dr**
Kings Mountain NC 28086, USA
WEBSITE: **www.crypton.com**

CONTACT NAME: **Hardy Sullivan**
TITLE: **VP Market Development**
PHONE: **704-259-5039**
EMAIL: **hardy@crypton.com**

KEY

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

Hazard Types

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

GreenScreen (GS)

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

Recycled Types

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

Other Terms

Inventory Methods:

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

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

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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.