rEvolve® II Modular
by Mannington Mills

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 09 68 13

PRODUCT DESCRIPTION: This HPD is for rEvolve® II Modular. Another environmentally forward innovation, rEvolve® II is our thermoplastic polyolefin modular backing system. Containing a minimum of 3% total recycled content by total product weight, rEvolve® II utilizes less virgin materials and energy to manufacture than most modular backings. Backed with our non-prorated lifetime warranty, rEvolve® II is guaranteed not to edge ravel, delaminate, dome, or dish.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- ○ Nested Materials Method
- ◉ Basic Method

Threshold Disclosed Per

- ○ Material
- ◉ Product

Threshold level

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

Residuals/Impurities

- ◉ Considered
- ○ Partially Considered
- ○ Not Considered

Explanation(s) provided for Residuals/Impurities?

- ◉ Yes ○ No

All Substances Above the Threshold Indicated Are:

Characterized ○ Yes Ex/SC ◉ Yes ○ No

% weight and role provided for all substances.

Screened ○ Yes Ex/SC ◉ Yes ○ No

All substances screened using Priority Hazard Lists with results disclosed.

Identified ○ Yes Ex/SC ◉ Yes ○ No

All substances disclosed by Name (Specific or Generic) and Identifier.

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

REVOLVE® II MODULAR [CALCIUM CARBONATE LT-UNK 2-PROPENOIC ACID, METHYL ESTER, POLYMER WITH ETHENE LT-UNK CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE (FIBERGLASS) LT-UNK NYLON 6 LT-UNK POLYETHYLENE TEREPHTHALATE LT-UNK ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENE LT-UNK 1,3-PENTADIENE, POLYMER WITH 2-METHYL-2-BUTENE LT-UNK 2-PROPENOIC ACID, BUTYL ESTER, POLYMER WITH ETHYL 2-PROPENOATE, N-(HYDROXYMETHYL)-2-PROPENAMIDE, 2-PROPENAMIDE AND 2-PROPENENITRILE LT-UNK *QUARTZ* LT-1 | CAN 2-PROPENOIC ACID, HOMOPOLYMER, SODIUM SALT LT-UNK ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL LT-UNK BARIUM LT-P1 | END BENZENEPROPANOIC ACID, 3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1-DIMETHYLETHYL) -4-HYDROXYPHENYL]-1-OXOPROPOXY]METHYL]-1,3-PROPANEDIYL ESTER LT-UNK BENZENESULFONIC ACID, DODECYL-, BRANCHED, SODIUM SALT LT-P1 C. I. PIGMENT BLUE 15 BM-3 C.I. PIGMENT BROWN 24 LT-UNK CARBON BLACK LT-1 | CAN CASTOR OIL, ETHOXYLATED, DIOLEATE LT-UNK COCONUT OIL LT-UNK DISTILLATES, PETROLEUM, HYDROTREATED LIGHT BM-2 | MAM | CAN FATTY ACIDS, TALL-OIL, ETHOXYLATED PROPOXYLATED LT-UNK OCTENYL, 1,4-BUTANEDIOIC ACID, DIPOTASSIUM SALT IN WATER NoGS PHOSPHINIC ACID, MANGANESE(2++) SALT (2:1) LT-UNK POLY(OXY-1,2-ETHANEDIYL), α-DODECYL-ω-HYDROXY- LT-P1 | MUL POLY(OXY-1,2-ETHANEDIYL), α-METHYL-ω-(2-PROPENYLOXY)- LT-UNK POLYETHYLENE LT-UNK POLYPROPYLENE LT-UNK POLYVINYL ALCOHOL LT-UNK POTASSIUM HYDROXIDE LT-P1 | SKI SILOXANES AND SILICONES, DI-ME, 3-HYDROXYPROPYL ME, ETHERS WITH POLYETHYLENE GLYCOL MONO-ME ETHER LT-P1 SULFURIC ACID, MONODODECYL ESTER, AMMONIUM

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

SALT LT-UNK TITANIUM DIOXIDE LT-1 | CAN TITANIUM DIOXIDE LT-1 | CAN | END NYLON 6,6 LT-UNK]

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: CRI Green Label Plus - Carpets

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- ○ Yes
- ◉ No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2020-02-04
PUBLISHED DATE: 2020-02-04
EXPIRY DATE: 2023-02-04

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

REVOLVE® II MODULAR

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Formulation data, including residuals, were collected from all suppliers and those above the stated threshold are included.

OTHER PRODUCT NOTES:

CALCIUM CARBONATE

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-02-04

%: 35.00 - 45.00 GS: LT-UNK RC: None NANO: No ROLE: Multiple

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

2-PROPENOIC ACID, METHYL ESTER, POLYMER WITH ETHENE

ID: 25103-74-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-02-04

%: 20.00 - 30.00 GS: LT-UNK RC: None NANO: No ROLE: Secondary Backing

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE (FIBERGLASS)

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-02-04

%: 10.00 - 20.00 GS: LT-UNK RC: PostC NANO: No ROLE: Secondary Backing

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers. Recycled content comes from post-consumer glass bottles.

NYLON 6

ID: 25038-54-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 25.00** GS: **LT-UNK** RC: **Both** NANO: **No** ROLE: **Face Fiber**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers. Recycled content comes from industrial waste and depolymerized post-consumer waste.

POLYETHYLENE TEREPHTHALATE

ID: 25038-59-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 10.00** GS: **LT-UNK** RC: **Both** NANO: **No** ROLE: **Primary Backing**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers. Recycled content comes from industrial waste and post-consumer plastic bottles.

ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENE

ID: 24937-78-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 5.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pre-Coat**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

1,3-PENTADIENE, POLYMER WITH 2-METHYL-2-BUTENE

ID: 26813-14-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 2.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Secondary Backing**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

2-PROPENOIC ACID, BUTYL ESTER, POLYMER WITH ETHYL 2-PROPENOATE, N-(HYDROXYMETHYL)-2-PROPENAMIDE, 2-PROPENAMIDE AND 2-PROPENENITRILE

ID: 61467-52-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 2.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Secondary Backing**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

QUARTZ

ID: 14808-60-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

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

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	GHS - New Zealand	6.7A - Known or presumed human carcinogens
CANCER	GHS - Australia	H350i - May cause cancer by inhalation
CANCER	GHS - Japan	Carcinogenicity - Category 1A [H350]

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

2-PROPENOIC ACID, HOMOPOLYMER, SODIUM SALT

ID: 9003-04-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pre-Coat**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL

ID: **25213-24-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pre-Coat**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

BARIUM

ID: **7440-39-3**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Secondary Backing**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

BENZENEPROPANOIC ACID, 3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1-DIMETHYLETHYL) -4-HYDROXYPHENYL]-1-OXOPROPOXY]METHYL]-1,3-PROPANEDIYL ESTER

ID: **6683-19-8**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Secondary Backing**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

BENZENESULFONIC ACID, DODECYL-, BRANCHED, SODIUM SALT

ID: 69227-09-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Pre-Coat**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

C. I. PIGMENT BLUE 15

ID: 147-14-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **BM-3** RC: **None** NANO: **No** ROLE: **Face Fiber**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers. The expired GreenScreen Assessment was performed by ToxServices on Oct 14, 2014 and can be found at https://pharosproject.net/assessments/viewFile/98.

C.I. PIGMENT BROWN 24

ID: 68186-90-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Face Fiber**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Face Fiber**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

CASTOR OIL, ETHOXYLATED, DIOLEATE

ID: 110531-96-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Face Fiber**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

COCONUT OIL

ID: 8001-31-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Face Fiber**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

DISTILLATES, PETROLEUM, HYDROTREATED LIGHT

ID: 64742-47-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Primary Backing**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MAMMALIAN	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers. The expired GreenScreen Assessment was performed by ToxServices on June 25, 2015 and can be found at https://pharosproject.net/assessments/viewFile/125.

FATTY ACIDS, TALL-OIL, ETHOXYLATED PROPOXYLATED

ID: 67784-86-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Face Fiber**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

OCTENYL, 1,4-BUTANEDIOIC ACID, DIPOTASSIUM SALT IN WATER

ID: 58641-28-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Face Fiber**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

PHOSPHINIC ACID, MANGANESE(2++) SALT (2:1)

ID: 10043-84-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Face Fiber**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

POLY(OXY-1,2-ETHANEDIYL), α-DODECYL-ω-HYDROXY-

ID: 9002-92-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Pre-Coat**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

POLY(OXY-1,2-ETHANEDIYL), α-METHYL-ω-(2-PROPENYLOXY)-

ID: **27252-80-8**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Face Fiber**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

POLYETHYLENE

ID: **9002-88-4**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Primary Backing**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

POLYPROPYLENE

ID: **9003-07-0**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Primary Backing**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

POLYVINYL ALCOHOL

ID: 9002-89-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Secondary Backing**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

POTASSIUM HYDROXIDE

ID: 1310-58-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Face Fiber**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

SILOXANES AND SILICONES, DI-ME, 3-HYDROXYPROPYL ME, ETHERS WITH POLYETHYLENE GLYCOL MONO-ME ETHER

ID: 68938-54-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Face Fiber**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

SULFURIC ACID, MONODODECYL ESTER, AMMONIUM SALT

ID: 2235-54-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pre-Coat**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

TITANIUM DIOXIDE

ID: 1317-70-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Face Fiber**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 1.00** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Face Fiber**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

NYLON 6,6

ID: 32131-17-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-02-04**

%: **0.00 - 25.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Face Fiber**

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

SUBSTANCE NOTES: A range is provided due to the variability in the face weight and to protect the intellectual property of both Mannington and their suppliers.

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 — **CRI Green Label Plus - Carpets**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: All
CERTIFICATE URL: https://services.carpet-rug.org/api/GLPCertificate/3295

ISSUE DATE: 2009-08-05

EXPIRY DATE: 2020-06-30

CERTIFIER OR LAB: Carpet and Rug Institute

CERTIFICATION AND COMPLIANCE NOTES: GLP3295

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.

RV-500 ADHESIVE — HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
RV-500 is a high-strength adhesive for installing rEvolve ® carpet tile over porous and non-porous sub floors. RV-500 offers a quick dry time and ease of application. This unique adhesive has outstanding water resistance and tenacious bond strength for demanding installations such as hospitals, schools, nursing homes, hospitality and food preparation centers. The low odor is ideal for occupied buildings. RV-500 is freeze thaw stable and has permanent antimicrobial protection. Installation instructions and SDS documentation can be found at www.manningtoncommercial.com. Additionally, RV-500 has a Cradle to Cradle Material Health Certificate at the Platinum Level. https://www.c2ccertified.org/products/mhcertificate/mannington-rv-500-non-pvc-psa-adhesive-mannington-mills-inc

Section 5: General Notes

Residuals and impurities were considered for all raw materials and those that show up above the stated threshold were listed.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Mannington Mills**
ADDRESS: **1844 US Highway 41 S.E.**
Calhoun GA 30701, USA
WEBSITE: **www.manningtoncommercial.com**

CONTACT NAME: **Dave Kitts**
TITLE: **VP - Environment**
PHONE: **856-339-5871**
EMAIL: **dave.kitts@mannington.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
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
MAM Mammalian/systemic/organ toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
LAN Land Toxicity
NF Not found on Priority Hazard Lists

GreenScreen (GS)

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

Recycled Types

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

Other Terms
Inventory Methods:

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

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

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

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

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

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

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