

CLASSIFICATION: 09 68 13

PRODUCT DESCRIPTION: Another environmentally-forward innovation, rEvolv® is our thermoplastic polyolefin modular backing system. Containing a minimum of 35% total recycled content by total product weight including 10% post-consumer, rEvolv® utilizes less virgin materials and energy to manufacture than most modular backings. Backed with our non-prorated lifetime warranty, rEvolv® is guaranteed not to edge ravel, delaminate, zipper, dome or dish. Certified NSF/ANSI-140 Platinum.

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

Are All Substances Above the Threshold Indicated?

Characterized Yes No
Percent Weight and Role Provided?

Screened Yes No
Using Priority Hazard Lists with Results Disclosed?

Identified Yes No
Name and Identifier Provided?

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® MODULAR [FLY ASH **LT-UNK** ETHYLENE/METHYL ACRYLATE RESIN **LT-UNK** NYLON 6,6 (POLY[IMINO(1,6-DIOXO-1,6-HEXANEDIYL)IMINO-1,6-HEXANEDIYL]) **LT-UNK** NYLON 6 (POLY[HEXANO-6-LACTAM]) **LT-UNK** SOLID / PLATE GLASS (GLASS/FIBERGLASS) **LT-UNK** LIMESTONE; CALCIUM CARBONATE **LT-UNK** POLYETHYLENE TEREPHTHALATE (PET) **LT-UNK** ETHYLENE VINYL ACETATE POLYMER (EVA) **LT-UNK** 1,3-PENTADIENE, POLYMER WITH 2-METHYL-2-BUTENE **LT-UNK** QUARTZ **LT-1** | CAN 2-PROPENOIC ACID, BUTYL ESTER, POLYMER WITH ETHYL 2-PROPENOATE, N-(HYDROXYMETHYL)-2-PROPENAMIDE, 2-PROPENAMIDE AND 2-PROPENITRILE **LT-UNK**]

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

Contents highest concern GreenScreen Benchmark or List translator Score ... **LT-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: CRI Green Label Plus - Carpets
Multi-attribute: NSF/ANSI 140-2015 Platinum

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2018-06-27

PUBLISHED DATE: 2018-06-27

EXPIRY DATE: 2021-06-27



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

REVOLVE® MODULAR

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were considered and those that fall above threshold are included.

OTHER PRODUCT NOTES: A range is given for the substances due to variances in face weight and to protect the proprietary nature of the formulation.

FLY ASH

ID: 68131-74-8

#: 25.0000 - 30.0000 GS: LT-UNK RC: PreC NANO: No ROLE: Secondary Backing

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation. Recycled content comes from a byproduct of energy creation.

ETHYLENE/METHYL ACRYLATE RESIN

ID: 25103-74-6

#: 20.0000 - 25.0000 GS: LT-UNK RC: None NANO: No ROLE: Secondary Backing

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation.

NYLON 6,6 (POLY[IMINO(1,6-DIOXO-1,6- HEXANEDIYL)IMINO-1,6-HEXANEDIYL])

ID: 32131-17-2

#: 15.0000 - 20.0000 GS: LT-UNK RC: None NANO: No ROLE: Face Fiber [ALT]

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation.

NYLON 6 (POLY[HEXANO-6-LACTAM])

ID: 25038-54-4

%: 15.0000 - 20.0000	GS: LT-UNK	RC: Both	NANO: No	ROLE: Face Fiber [ALT]
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation. Recycled content comes from manufacturing waste and post-consumer materials sent to the supplier.

SOLID / PLATE GLASS (GLASS/FIBERGLASS)

ID: 65997-17-3

%: 10.0000 - 15.0000	GS: LT-UNK	RC: PostC	NANO: No	ROLE: Secondary Backing
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation. Recycled content comes from used glass bottles.

LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

%: 10.0000 - 15.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Pre-coat
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation.

POLYETHYLENE TEREPHTHALATE (PET)

ID: 25038-59-9

%: 2.0000 - 3.0000	GS: LT-UNK	RC: Both	NANO: No	ROLE: Primary Backing
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation. Recycled content comes from manufacturing waste and used plastic bottles.

ETHYLENE VINYL ACETATE POLYMER (EVA)

ID: 24937-78-8

%: 2.0000 - 3.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Pre-coat
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation.

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

ID: 26813-14-9

#: **0.1000 - 1.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Secondary Backing**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation.

QUARTZ

ID: 14808-60-7

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

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 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

New Zealand - GHS

6.7A - Known or presumed human carcinogens

CANCER

Australia - GHS

H350 - May cause cancer

CANCER

Japan - GHS

Carcinogenicity - Category 1A

CANCER

Australia - GHS

H350i - May cause cancer by inhalation

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation. This substance is in the product at 0-0.2%.

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

ID: 61467-52-5

#: **0.0000 - 0.2000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Secondary Backing**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: A range is given due to variances in face weight and to protect the proprietary nature of the formulation.

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: **Second Party**

ISSUE DATE: **2009-**

EXPIRY DATE: **2019-**

CERTIFIER OR LAB: **Carpet and**

APPLICABLE FACILITIES: **All**

08-05

06-30

Rug Institute

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **GLP3295**

MULTI-ATTRIBUTE

NSF/ANSI 140-2015 Platinum

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2015-**

EXPIRY DATE: **2021-**

CERTIFIER OR LAB: **SCS Global**

APPLICABLE FACILITIES: **All**

07-01

06-30

Services

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **SCS-SCC-02216**

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.

Section 5: General Notes

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



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 (insufficient 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.