

CLASSIFICATION: 09 65 19

PRODUCT DESCRIPTION: Cirro is a non-vinyl polymeric composite floor defined by its clarity of design and consideration for the environment. Cirro planks and tiles are made without PVC or phthalates, contain recycled content and are crafted to perform under high traffic. In 20 versatile visuals, Cirro meets every style need and all with a low environmental impact.

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

CIRRO [POLYMETHYL METHACRYLATE LT-P1 | RES ALUMINUM HYDROXIDE BM-2 | RES PHOSPHORIC ACID, ISODECYL DIPHENYL ESTER LT-P1 | PBT | MUL 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER, POLYMER WITH BUTYL 2-PROPENOATE LT-UNK GLASS, OXIDE, CHEMICALS LT-UNK | CAN GRAPHITE LT-UNK TRIPHENYL PHOSPHATE BM-2 | END | MUL TITANIUM DIOXIDE LT-1 | CAN | END DIIRON TRIOXIDE BM-2 | CAN OCTADECANAMIDE, N,N'-1,2-ETHANEDIYLBIS- LT-UNK BUTANEDIOIC ACID, SULFO-, 1,4-BIS(2-ETHYLHEXYL) ESTER, SODIUM SALT LT-P1 | MUL METHYL METHACRYLATE LT-P1 | RES | PHY | SKI | END OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE 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: RFCI FloorScore

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: 2019-10-10

PUBLISHED DATE: 2019-10-10

EXPIRY DATE: 2022-10-10



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

CIRRO

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: All formulation and residual data were collected from suppliers and those that fall above the stated threshold are divulged.

OTHER PRODUCT NOTES:

POLYMETHYL METHACRYLATE

ID: 9011-14-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-10-10

#: 30.00 - 35.00

GS: LT-P1

RC: None

NANO: Unknown

ROLE: Base

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: A range is provided due to the variability in the color of the product and to protect the intellectual property of the manufacturer and their suppliers.

ALUMINUM HYDROXIDE

ID: 21645-51-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-10-10

#: 25.00 - 30.00

GS: BM-2

RC: None

NANO: No

ROLE: Flame Retardant

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: A range is provided due to the variability in the color of the product and to protect the intellectual property of the manufacturer and their suppliers. The GreenScreen assessment was performed by Rosenblum Environmental on 2019-04-01 and can be found at <https://pharosproject.net/assessments/viewFile/78>.

PHOSPHORIC ACID, ISODECYL DIPHENYL ESTER

ID: 29761-21-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-10-10

#: 20.00 - 25.00

GS: LT-P1

RC: None

NANO: Unknown

ROLE: Plasticizer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Substance of Possible Concern
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: A range is provided due to the variability in the color of the product and to protect the intellectual property of the manufacturer and their suppliers.

2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER, POLYMER WITH BUTYL 2-PROPENOATE

ID: 25852-37-3

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

HAZARD SCREENING DATE: **2019-10-10**

#: **10.00 - 15.00** GS: **LT-UNK** RC: **None** NANO: **Unknown** ROLE: **Base**

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 color of the product and to protect the intellectual property of the manufacturer and their suppliers.

GLASS, OXIDE, CHEMICALS

ID: 65997-17-3

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

HAZARD SCREENING DATE: **2019-10-10**

#: **0.00 - 5.00** GS: **LT-UNK** RC: **PreC** NANO: **No** ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer

SUBSTANCE NOTES: A range is provided due to the variability in the color of the product and to protect the intellectual property of the manufacturer and their suppliers. Recycled content is sourced from post-consumer food and beverage containers, among other things.

GRAPHITE

ID: 7440-44-0

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

HAZARD SCREENING DATE: **2019-10-10**

#: **0.00 - 5.00** GS: **LT-UNK** RC: **None** NANO: **Unknown** ROLE: **Additive**

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 color of the product and to protect the intellectual property of the manufacturer and their suppliers.

TRIPHENYL PHOSPHATE

ID: 115-86-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-10-10**

%: 0.00 - 5.00	GS: BM-2	RC: None	NANO: Unknown	ROLE: Plasticizer
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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	ChemSec - SIN List	Endocrine Disruption
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: A range is provided due to the variability in the color of the product and to protect the intellectual property of the manufacturer and their suppliers. The expired GreenScreen assessment was performed by Rosenblum Environmental on 2/29/2016 and can be found at <https://pharosproject.net/assessments/viewFile/90>

TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-10-10**

%: 0.00 - 1.00	GS: LT-1	RC: None	NANO: No	ROLE: Colorant
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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 color of the product and to protect the intellectual property of the manufacturer and their suppliers.

DIIRON TRIOXIDE

ID: 1309-37-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-10-10**

%: 0.00 - 1.00	GS: BM-2	RC: None	NANO: Unknown	ROLE: Colorant
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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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 color of the product and to protect the intellectual property of the manufacturer and their suppliers. The expired GreenScreen assessment was performed by SciVera on 9/10/2013 and can be found at <https://pharosproject.net/assessments/viewFile/15>

OCTADECANAMIDE, N,N'-1,2-ETHANEDIYLBIS-

ID: 110-30-5

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

HAZARD SCREENING DATE: **2019-10-10**

#: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **Unknown** ROLE: **Additive**

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 color of the product and to protect the intellectual property of the manufacturer and their suppliers.

BUTANEDIOIC ACID, SULFO-, 1,4-BIS(2-ETHYLHEXYL) ESTER, SODIUM SALT

ID: 577-11-7

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

HAZARD SCREENING DATE: **2019-10-10**

#: **0.00 - 1.00** GS: **LT-P1** RC: **None** NANO: **Unknown** ROLE: **Base**

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 color of the product and to protect the intellectual property of the manufacturer and their suppliers.

METHYL METHACRYLATE

ID: 80-62-6

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

HAZARD SCREENING DATE: **2019-10-10**

#: **0.00 - 1.00** GS: **LT-P1** RC: **None** NANO: **Unknown** ROLE: **Base**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: A range is provided due to the variability in the color of the product and to protect the intellectual property of the manufacturer and their suppliers.

OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE

ID: 57472-68-1

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

HAZARD SCREENING DATE: **2019-10-10**

#: **0.00 - 1.00**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Base**

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 color of the product and to protect the intellectual property of the manufacturer 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

RFCI FloorScore

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

https://www.scs-certified.com/products/cert_pdfs/Amtico_2018_SCS-FS-05142_s.pdf

ISSUE DATE:

2019-10-01

EXPIRY DATE:

CERTIFIER OR LAB: **SCS**

Global Services

CERTIFICATION AND COMPLIANCE NOTES: **Registration # SCS-FS-05142 Conforms to the CDPH/EHLB Standard Method v1.2-2017 (California Section 01350), effective April 1, 2017, for the school classroom and private office parameters when modeled as Flooring. Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5 mg/m³ (in compliance with CDPH/EHLB Standard Method v1.2-2017)**

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.

AMTICO 373

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Amtico 373 is a solvent-free, nonflammable, freeze/thaw stable acrylic latex adhesive. Amtico 373 can be used to install Cirro over porous subfloors using a 1/16" x 1/16" x 1/16" square-notch trowel with an approximate spread rate of 150-180 sq. ft. per gallon, and over non-porous subfloors using a 1/32" x 1/32" x 1/16" fine-notch trowel with an approximate spread rate of 200-240 sq. ft. per gallon. It should be used as a semi wet-set adhesive.

AMTICO PS - HIGH MOISTURE

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Moisture resistant transitional pressure sensitive adhesive recommended for higher moisture tolerance of 8 lbs. maximum MVER or 90% relative humidity. The adhesive will not correct preexisting moisture problems in older concrete subfloors. Amtico High Moisture PS Adhesive can be used to install Cirro over porous subfloors using a 1/16" x 1/32" x 1/32" U-notched trowel with an approximate spread rate of 250 sq. ft. per gallon, and over non-porous subfloors using a 1/16" x 1/32" x 5/64" U-notched trowel with an approximate spread rate of 350 sq. ft. per gallon. For non-porous subfloors, adhesive must dry completely.

AMTICO RP-18

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

A solvent-free, 1 component silane polymer based adhesive. Moisture limits per ASTM F-1869 of 10 lbs. maximum MVER and/or 95% relative humidity per ASTM F-2170 and a pH limit of 12. Amtico RP-18 works well over porous subfloors using a 1/16" x 1/32" x 1/32" U-notch trowel with an approximate spread rate of 250 ft² per gallon and non-porous subfloors using a 1/16" x 1/32" x 5/64" U-notch trowel with an approximate spread rate of 350 ft² per gallon. It is recommended for use in all areas subject to some heat and moisture variations, like what may be found adjacent to sunny windows and bathrooms. Amtico RP-18 must be used for installing LVF in wet areas such as locker rooms and should also be used for areas with high point loads and direct sun exposure. See adhesive spec and label for details.

Section 5: General Notes



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.