

CLASSIFICATION: 09-65-00

PRODUCT DESCRIPTION: PVC-free Striations and Migrations™ BBT™ with Diamond 10 Technology coating deliver a sustainable tile flooring solution combining biophilic design, reduced maintenance, and long-term performance.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold level

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

Residuals/Impurities

- Considered
- Partially Considered
- Not Considered

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.

Threshold Disclosed Per

- Material
- Product

Explanation(s) provided for Residuals/Impurities?

- 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](#)

MIGRATIONS® BBT™ AND STRIATIONS BBT™ WITH DIAMOND 10® TECHNOLOGY COATING - BIOBASED TILE [CALCIUM CARBONATE (LIMESTONE) LT-UNK BIOSTRIDE® POLYMER NoGS TITANIUM DIOXIDE LT-1 | CAN | END 2-NAPHTHALENECARBOXAMIDE, N,N'-(2-CHLORO-1,4-PHENYLENE) BIS[4-[(2,5-DICHLOROPHENYL)AZO]-3-HYDROXY- LT-UNK C. I. PIGMENT BLUE 15 BM-3 C.I. PIGMENT YELLOW 42 LT-UNK DIIRON TRIOXIDE BM-1 | CAN IRON OXIDE (FE3O4) BM-1 | CAN QUINO[2,3-B]ACRIDINE-7,14-DIONE, 5,12-DIHYDRO- LT-UNK]

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

Contents highest concern GreenScreen

Benchmark or List translator Score ... BM-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Residuals/impurities are quantitatively measured and are displayed in the HPD when greater than 1000 ppm.

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: FloorScore®

LCA: Environmental Product Declaration

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: 2020-04-28

PUBLISHED DATE: 2020-04-28

EXPIRY DATE: 2023-04-28

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

MIGRATIONS® BBT™ AND STRIATIONS BBT™ WITH DIAMOND 10® TECHNOLOGY COATING - BIOBASED TILE

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED:
Yes

RESIDUALS AND IMPURITIES NOTES: Residuals/impurities are quantitatively measured and are displayed in the HPD when greater than 1000 ppm.

OTHER PRODUCT NOTES: For more information on this product visit: <https://www.armstrongflooring.com/commercial/en-us/products/bio-flooring.html>

CALCIUM CARBONATE (LIMESTONE)

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-04-28

%: 75.00 - 78.00

GS: LT-UNK

RC: None

NANO: Unknown

ROLE: Filler

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Limestone filler

BIOSTRIDE® POLYMER

ID: 2389129-04-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-04-28

%: 11.00 - 14.00

GS: NoGS

RC: None

NANO: No

ROLE: Binder

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Bio-based (corn) binder

TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-04-28

%: 0.50 - 1.00

GS: LT-1

RC: None

NANO: Unknown

ROLE: Pigment

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: Titanium dioxide is listed as a hazard in respirable form. Titanium dioxide is not in a respirable form in the final product.

2-NAPHTHALENECARBOXAMIDE, N,N'-(2-CHLORO-1,4-PHENYLENE) BIS[4-[(2,5-DICHLOROPHENYL)AZO]-3-HYDROXY-

ID: 5280-78-4

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

HAZARD SCREENING DATE: **2020-04-28**

%: **0.00 - 0.10** GS: **LT-UNK** RC: **None** NANO: **Unknown** ROLE: **Red Pigment**

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

SUBSTANCE NOTES: Pigments vary based on pattern.

C. I. PIGMENT BLUE 15

ID: 147-14-8

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

HAZARD SCREENING DATE: **2020-04-28**

%: **0.00 - 0.10** GS: **BM-3** RC: **None** NANO: **Unknown** ROLE: **Blue Pigment**

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

SUBSTANCE NOTES: Pigments vary based on pattern.

C.I. PIGMENT YELLOW 42

ID: 51274-00-1

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

HAZARD SCREENING DATE: **2020-04-28**

%: **0.00 - 0.10** GS: **LT-UNK** RC: **None** NANO: **Unknown** ROLE: **Yellow Pigment**

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

SUBSTANCE NOTES: Pigments vary based on pattern.

DIIRON TRIOXIDE

ID: 1309-37-1

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

HAZARD SCREENING DATE: **2020-04-28**

%: **0.00 - 0.10** GS: **BM-1** RC: **None** NANO: **Unknown** ROLE: **Red Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
SUBSTANCE NOTES: Pigments vary based on pattern.		

IRON OXIDE (FE3O4)

ID: **1317-61-9**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-04-28		
%: 0.00 - 0.10	GS: BM-1	RC: None	NANO: Unknown	ROLE: Black Pigment
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification		
SUBSTANCE NOTES: Pigments vary based on pattern.				

QUINO[2,3-B]ACRIDINE-7,14-DIONE, 5,12-DIHYDRO-

ID: **1047-16-1**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-04-28		
%: 0.00 - 0.10	GS: LT-UNK	RC: None	NANO: Unknown	ROLE: Red Pigment
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Pigments vary based on pattern.				

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

FloorScore®

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2019-09-01**

EXPIRY DATE: **2020-08-31**

CERTIFIER OR LAB: **SCS Global Services**

APPLICABLE FACILITIES: **Jackson MS**

CERTIFICATE URL:

<https://www.armstrongflooring.com/pdbupimages-flr/220314.pdf>

CERTIFICATION AND COMPLIANCE NOTES:

LCA

Environmental Product Declaration

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2019-12-20**

EXPIRY DATE: **2024-12-20**

CERTIFIER OR LAB: **ASTM International**

APPLICABLE FACILITIES: **Jackson, MS**

CERTIFICATE URL:

<https://www.armstrongflooring.com/pdbupimages-flr/220749.pdf>

CERTIFICATION AND COMPLIANCE NOTES:

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.

ADHESIVES RECOMMENDED FOR INSTALLATION

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Full-Spread Adhesives: S-525 or S-700 See www.armstrongflooring.com for more information.

Section 5: General Notes

This HPD is provided solely for the intended recipient in connection with its assessment of products and for no other purpose. In providing information, Armstrong Flooring expresses no opinion and makes no representations as to the applicability, suitability, accuracy or completeness of the declaration form, or the standards, rules, classifications, warnings, or criteria utilized or referenced therein. Information herein is qualified in the entirety by reference to the applicable product Safety Data Sheet (SDS) which can be located at www.armstrongflooring.com, as well as by the additional ingredient information provided for specified substances. Please refer to the Armstrong Flooring website for more information on this product.

MANUFACTURER INFORMATION

MANUFACTURER: Armstrong Flooring, Inc.
ADDRESS: 1085 Hwy 80 West
Jackson Mississippi 39204, United States
WEBSITE: www.armstrongflooring.com

CONTACT NAME: TechLine
TITLE: Customer Service
PHONE: 1-888-Armstrong
EMAIL: fpotechline@armstrongflooring.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.