NATURAL CREATIONS® with Diamond10® Technology - Luxury Vinyl Tile
by Armstrong Flooring, Inc.

CLASSIFICATION: 09 65 00

PRODUCT DESCRIPTION: Pioneering Natural Creations® Luxury Vinyl Tile provides unlimited creative design combinations while incorporating our Diamond 10® Technology to keep floors looking newer longer with the highest scratch, stain, and scuff resistance in the industry.

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

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

NATURAL CREATIONS® WITH DIAMOND10® TECHNOLOGY - LUXURY VINYL TILE
- LT-UNK CALCIUM CARBONATE
- POLYVINYL CHLORIDE LT-P1
- RES VINYL CHLORIDE-VINYL ACETATE COPOLYMERS LT-UNK
- DI(2-ETHYLHEXYL) TEREPTHALATE BM-3dg
- CALCIUM HYDROXIDE (CA(OH)2) LT-P1

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: Industry-Wide 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: 2020-02-06
PUBLISHED DATE: 2020-04-03
EXPIRY DATE: 2023-02-06

NATURAL CREATIONS with Diamond10 Technology - Luxury Vinyl Tile
hpcrepository.hpd-collaborative.org

HPD v2.1.1 created via HPDC Builder Page 1 of 5
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](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

### NATURAL CREATIONS® WITH DIAMOND10® TECHNOLOGY - LUXURY VINYL TILE

**PRODUCT THRESHOLD:** 1000 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.


#### CALCIUM CARBONATE

**ID:** 1317-65-3  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-02-06

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>60.00 - 65.00</td>
<td>LT-UNK</td>
<td>None</td>
<td>Unknown</td>
<td>Filler</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**  
None found

**AGENCY AND LIST TITLES**  
None found

**WARNINGS**  
No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Limestone filler

#### POLYVINYL CHLORIDE

**ID:** 9002-86-2  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-02-06

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.00 - 18.00</td>
<td>LT-P1</td>
<td>None</td>
<td>Unknown</td>
<td>Binder</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**  
Respiratory

**AGENCY AND LIST TITLES**  
AOEC - Asthmagens

**WARNINGS**  
Asthmagen (Rs) - sensitizer-induced

**SUBSTANCE NOTES:** Binder component

#### VINYL CHLORIDE-VINYL ACETATE COPOLYMERS

**ID:** 9003-22-9  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-02-06

<table>
<thead>
<tr>
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<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.00 - 18.00</td>
<td>LT-UNK</td>
<td>None</td>
<td>Unknown</td>
<td>Binder</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**  
Respiratory

**AGENCY AND LIST TITLES**  
AOEC - Asthmagens

**WARNINGS**  
Asthmagen (Rs) - sensitizer-induced

**SUBSTANCE NOTES:** Binder component
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Binder component

- **DI(2-ETHYLHEXYL) TEREPTHALATE**
  - **ID:** 6422-86-2
  - **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library
  - **HAZARD SCREENING DATE:** 2020-02-06
  - **%:** 5.00 - 8.00
  - **GS:** BM-3dg
  - **GS:** LT-P1
  - **RC:** None
  - **NANO:** Unknown
  - **ROLE:** Plasticizer

**SUBSTANCE NOTES:** Binder component

- **CALCIUM HYDROXIDE (CA(OH)2)**
  - **ID:** 1305-62-0
  - **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library
  - **HAZARD SCREENING DATE:** 2020-02-06
  - **%:** 0.00 - 1.00
  - **GS:** BM-3dg
  - **GS:** LT-P1
  - **RC:** None
  - **NANO:** Unknown
  - **ROLE:** Stabilizer

**SUBSTANCE NOTES:** Binder component
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

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>Lancaster, PA</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td><a href="https://www.armstrongflooring.com/pdbupimages-flr/220311.pdf">https://www.armstrongflooring.com/pdbupimages-flr/220311.pdf</a></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2019-09-01</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td>2020-08-31</td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>SCS Global Services</td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES:

FloorScore®

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CERTIFICATION AND COMPLIANCE NOTES:

LCA

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<td></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2019-01-01</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td>2024-01-01</td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>UL Environment</td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: This environmental product declaration is provided by members of the Resilient Floor Covering Institute (RFCI). This declaration for vinyl tile covers a broad range of styles and colors produced by RFCI manufacturers of this flooring product.

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

<table>
<thead>
<tr>
<th>CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-Spread Adhesives: S-288 Premium, S-240 Epoxy, S-310 Roll Strong™, S-980, S-1000</td>
</tr>
<tr>
<td>See <a href="http://www.armstrongflooring.com">www.armstrongflooring.com</a> for more information.</td>
</tr>
</tbody>
</table>

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.
Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Armstrong Flooring, Inc.
ADDRESS: 1067 Dillerville Road
Lancaster PENNSYLVANIA 17603, United States
WEBSITE: www.armstrongflooring.com

CONTACT NAME: TechLine
TITLE: Customer Service
PHONE: 1-888-276-7876
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)

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

NoGS Unknown (no data on List Translator Lists)

GT-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)

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.

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.