Luxury Vinyl Tile (LVT) - Commercial by Armstrong Flooring, Inc.

CLASSIFICATION: 09 65 00

PRODUCT DESCRIPTION: Our luxury vinyl tile creates stunning floors that are meticulously designed to look like hardwood or stone, and built to endure the busiest lifestyles.

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
- Screened
- Identified

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
--- | --- | --- | --- | ---
LUXURY VINYL TILE (LVT) - COMMERCIAL | CALCIUM CARBONATE | LT-UNK | Screening | LT-P1
| POLYVINYL CHLORIDE | LT-P1 | Considered | Yes | Yes
| DI(2-ETHYLHEXYL) TEREPHTHALATE | BM-3dg | RES | LT-P1 | No
| PHOSPHORIC ACID, CALCIUM SALT | LT-UNK | NL | No

Number of Greenscreen BM-4/BM3 contents ... 0
Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1
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 Declarations

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: 2020-04-22
PUBLISHED DATE: 2020-04-22
EXPIRY DATE: 2023-04-22
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

### LUXURY VINYL TILE (LVT) - COMMERCIAL

**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.

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

### CALCIUM CARBONATE

**ID:** 1317-65-3  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-04-22  
**%:** 55.00 - 60.00  
**GS:** LT-UNK  
**RC:** None  
**NANO:** Unknown  
**ROLE:** Filler

**HAZARD TYPE**

None found  
**AGENCY AND LIST TITLES**

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

SUBSTANCE NOTES: Limestone filler

### POLYVINYL CHLORIDE

**ID:** 9002-86-2  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-04-22  
**%:** 25.00 - 35.00  
**GS:** LT-P1  
**RC:** None  
**NANO:** No  
**ROLE:** Binder

**HAZARD TYPE**

RESPIRATORY  
**AGENCY AND LIST TITLES**

AOEC - Asthmagens  
**WARNINGS**

Asthmagen (Rs) - sensitizer-induced  
**SUBSTANCE NOTES:** Binder component

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Luxury Vinyl Tile (LVT) - Commercial  
hpdrepository.hpd-collaborative.org  
HPD v2.1.1 created via HPDC Builder Page 2 of 5
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CALCIUM HYDROXIDE (CA(OH)2)</strong></td>
<td>1305-62-0</td>
<td><strong>Pharos Chemical and Materials Library</strong></td>
<td>2020-04-22</td>
<td>1.00 - 2.00</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Stabilizer</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td><strong>PHOSPHORIC ACID, CALCIUM SALT</strong></td>
<td>10103-46-5</td>
<td><strong>Pharos Chemical and Materials Library</strong></td>
<td>2020-04-22</td>
<td>0.10 - 0.50</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Stabilizer</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>
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>All Manufacturing Facilities</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td><a href="https://www.armstrongflooring.com/pdbupimages-flr/220525.pdf">https://www.armstrongflooring.com/pdbupimages-flr/220525.pdf</a></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2020-08-31</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td>2020-09-10</td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>SCS Global Services</td>
</tr>
</tbody>
</table>

### Environmental Product Declarations

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>No Facilities</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td><a href="https://www.armstrongflooring.com/pdbupimages-flr/220754.pdf">https://www.armstrongflooring.com/pdbupimages-flr/220754.pdf</a></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2019-12-21</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td>2024-12-21</td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>ASTM International</td>
</tr>
</tbody>
</table>

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 |

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:** 2500 Columbia Ave, Lancaster Pennsylvania 17604, United States of America  
**WEBSITE:** www.armstrongflooring.com

**CONTACT NAME:** TechLine  
**TITLE:** Customer Service  
**PHONE:** 1-888-276-7876  
**EMAIL:** fpotechline@armstrongflooring.com

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### 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

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQU</td>
<td>Aquatic toxicity</td>
</tr>
<tr>
<td>CAN</td>
<td>Cancer</td>
</tr>
<tr>
<td>DEV</td>
<td>Developmental toxicity</td>
</tr>
<tr>
<td>END</td>
<td>Endocrine activity</td>
</tr>
<tr>
<td>EYE</td>
<td>Eye irritation/corrosivity</td>
</tr>
<tr>
<td>GEN</td>
<td>Gene mutation</td>
</tr>
<tr>
<td>MAM</td>
<td>Mammalian/systemic/organ toxicity</td>
</tr>
<tr>
<td>MUL</td>
<td>Multiple hazards</td>
</tr>
<tr>
<td>NEU</td>
<td>Neurotoxicity</td>
</tr>
<tr>
<td>OZO</td>
<td>Ozone depletion</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent Bioaccumulative Toxic</td>
</tr>
<tr>
<td>PHY</td>
<td>Physical Hazard (reactive)</td>
</tr>
<tr>
<td>REP</td>
<td>Reproductive toxicity</td>
</tr>
<tr>
<td>RES</td>
<td>Respiratory sensitization</td>
</tr>
<tr>
<td>SKI</td>
<td>Skin sensitization/irritation/corrosivity</td>
</tr>
<tr>
<td>LAN</td>
<td>Land Toxicity</td>
</tr>
<tr>
<td>NF</td>
<td>Not found on Priority Hazard Lists</td>
</tr>
<tr>
<td>GLO</td>
<td>Global warming</td>
</tr>
<tr>
<td>MAM</td>
<td>Mammalian/systemic/organ toxicity</td>
</tr>
<tr>
<td>MUL</td>
<td>Multiple hazards</td>
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<td>NEU</td>
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### 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

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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.