Rejuvenations™ with Diamond 10® Technology coating - Heterogeneous Sheet Vinyl by Armstrong Flooring, Inc.

CLASSIFICATION: 09 65 16

PRODUCT DESCRIPTION: Consisting of three unique collections, TimberLine®, StoneRun™ and Ambigu™, Rejuvenations™ with Diamond 10® Technology coating features realistic, nature-inspired visuals and timeless textures.

Section 1: Summary

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.

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 (EPD) by ASTM

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: 2020-04-09
PUBLISHED DATE: 2020-04-10
EXPIRY DATE: 2023-04-09
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

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**REJUVENATIONS™ WITH DIAMOND 10® TECHNOLOGY COATING - HETEROGENEOUS SHEET VINYL**

**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/het.html

---

**CALCIUM CARBONATE**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2020-04-09</td>
</tr>
</tbody>
</table>

**%:** 40.00 - 45.00

**GS:** LT-UNK

**RC:** None

**NANO:** Unknown

**ROLE:** Filler

**HAZARD TYPE:**

None found

**AGENCY AND LIST TITLES:**

**WARNINGS:**

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Limestone filler

---

**POLYVINYL CHLORIDE**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2020-04-09</td>
</tr>
</tbody>
</table>

**%:** 40.00 - 45.00

**GS:** LT-P1

**RC:** None

**NANO:** Unknown

**ROLE:** Binder

**HAZARD TYPE:**

**RESPIRATORY**

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

**AGENCY AND LIST TITLES:**

**WARNINGS:**

**SUBSTANCE NOTES:** Binder component

---

**DI(2-ETHYLHEXYL) TEREPTHALATE**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2020-04-09</td>
</tr>
</tbody>
</table>

**%:** 10.00 - 15.00

**GS:** BM-3dg

**RC:** None

**NANO:** Unknown

**ROLE:** Plasticizer

**HAZARD TYPE:**

None found

**AGENCY AND LIST TITLES:**

**WARNINGS:**

No warnings found on HPD Priority Hazard Lists
### FUMED SILICA

**ID:** 99439-28-8  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-04-09  
**%:** 2.00 - 3.00  
**GS:** LT-P1  
**RC:** None  
**NANO:** Unknown  
**ROLE:** Stablizer  

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  
**CANCER**  
- **GHS - Japan:** Carcinogenicity - Category 1A  
- **GHS - Australia:** H350i - May cause cancer by inhalation  

---

### CALCIUM HYDROXIDE (CA(OH)2)

**ID:** 1305-62-0  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-04-09  
**%:** 1.00 - 2.00  
**GS:** LT-P1  
**RC:** None  
**NANO:** Unknown  
**ROLE:** Stabilizer  

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  
No warnings found on HPD Priority Hazard Lists  

---

### SOYBEAN OIL, EPOXIDIZED

**ID:** 8013-07-8  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-04-09  
**%:** 1.00 - 2.00  
**GS:** LT-P1  
**RC:** None  
**NANO:** Unknown  
**ROLE:** Plastizier  

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**  
No warnings found on HPD Priority Hazard Lists  

---

### TITANIUM DIOXIDE

**ID:** 13463-67-7  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-04-09  
**%:** 1.00 - 2.00  
**GS:** LT-1  
**RC:** None  
**NANO:** Unknown  
**ROLE:** Pigment
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels</td>
</tr>
</tbody>
</table>

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

**POLY[OXY(METHYL-1,2-ETHANEDIYL)], α-HYDRO-ω-HYDROXY-**

<table>
<thead>
<tr>
<th>ID: 25322-69-4</th>
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</thead>
<tbody>
<tr>
<td>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</td>
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<tr>
<td>HAZARD SCREENING DATE: 2020-04-09</td>
</tr>
<tr>
<td>%: 0.00 - 1.00</td>
</tr>
<tr>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td>RC: None</td>
</tr>
<tr>
<td>NANO: Unknown</td>
</tr>
<tr>
<td>ROLE: Coating</td>
</tr>
</tbody>
</table>

<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:** Coating 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>Wujiang, China</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td><a href="https://www.armstrongflooring.com/pdbupimages-flr/220312.pdf">https://www.armstrongflooring.com/pdbupimages-flr/220312.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>

### LCA

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
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<td>Wujiang, China</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td><a href="https://www.armstrongflooring.com/pdbupimages-flr/220755.pdf">https://www.armstrongflooring.com/pdbupimages-flr/220755.pdf</a></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2019-12-20</td>
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<tr>
<td>EXPIRY DATE:</td>
<td>2024-12-20</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

- Full-Spread Adhesives: S-599, S-543, Flip® Spray Adhesive, S-240 Epoxy, S-580 Flash Cove Adhesive
- Seam Adhesives: Heat Weld or S-761 Seam Adhesive

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: No. 683, Yuexiu Road
FOHO New & Hi-Tech Industrial Development Zone
Wujiang Jiang Su Province 215211, People's Republic of China

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

- 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.