Armstrong Commercial Dune Ceiling Panels
by Armstrong World Industries

Classification: 09510

Product Description: Armstrong Dune Ceilings are durable, fine-textured panels that offer a non-directional visual. Both durable and scratch-resistant, and the non-directional visual reduces scrap and installation time. An upgraded look at a modest price.

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
--- | --- | --- | --- | ---
ARMSTRONG COMMERCIAL DUNE CEILING PANELS | PERLITE LT-UNK | | | 
LIMESTONE LT-UNK | CLAY LT-UNK | CAN CORN STARCH LT-UNK | POLYCARBOXYLIC ACID, SODIUM SALT NGGS | DIATOMACEOUS EARTH LT-UNK | GLUCOSE NoGS | POLYVINYL ACETATE LT-UNK | QUARTZ LT-1 | CAN SILICA LT-3 | CAN STARCH LT-UNK | CALCIUM CARBONATE BM-3 | POLY HYDROXY LT-UNK | TITANIUM DIOXIDE LT-1 | CAN | END |

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: UL GreenGuard
Multi-attribute: Environmental Product Declaration
Multi-attribute: Declare Label

Consistency with Other Programs

No pre-checks completed or disclosed.

Third Party Verified?
- Yes
- No

Preparer: Self-Prepared
Verifier:
Verification #: 
Screening Date: 2018-10-24
Published Date: 2020-03-12
Expiry Date: 2021-10-24
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)

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**ARMSTRONG COMMERCIAL DUNE CEILING PANELS**

*Product Threshold:* 100 ppm  
*Residuals and Impurities Considered:* Yes

*Residuals and Impurities Notes:* Residuals/impurities in select raw materials are quantitatively measured, and are displayed in the HPD when greater than 100ppm.


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**PERLITE**

*ID:* 93763-70-3  
*HAZARD SCREENING METHOD:* Pharos Chemical and Materials Library  
*HAZARD SCREENING DATE:* 2018-10-24  
*%:* 35.00 - 55.00  
*GS:* LT-UNK  
*RC:* None  
*NANO:* No  
*ROLE:* Filler  

*Substance Notes:* This ingredient is a filler in the ceiling base.

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**LIMESTONE**

*ID:* 1317-65-3  
*HAZARD SCREENING METHOD:* Pharos Chemical and Materials Library  
*HAZARD SCREENING DATE:* 2018-10-24  
*%:* 10.00 - 20.00  
*GS:* LT-UNK  
*RC:* UNK  
*NANO:* No  
*ROLE:* Filler  

*Substance Notes:* Calcium Carbonate used in this product in not regulated as a hazardous substance. Calcium Carbonate used in this product is not a registered pesticide under FIFRA. Calcium Carbonate is not registered as a persistent material.

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**CLAY**

*ID:* 1332-58-7  
*HAZARD SCREENING METHOD:* Pharos Chemical and Materials Library  
*HAZARD SCREENING DATE:* 2018-10-24  
*%:* 1.00 - 40.00  
*GS:* LT-UNK  
*RC:* UNK  
*NANO:* No  
*ROLE:* Core
<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>
</tr>
</thead>
<tbody>
<tr>
<td>Corn Starch</td>
<td>9005-25-8</td>
<td>Pharos Chemical and Materials Library</td>
<td>2018-10-24</td>
<td>1.00 - 5.00</td>
<td>LT-UNK</td>
<td>UNK</td>
<td>No</td>
<td>Binder</td>
</tr>
<tr>
<td>Polycarboxylic Acid, SODIUM SALT</td>
<td>82601-60-9</td>
<td>Pharos Chemical and Materials Library</td>
<td>2018-10-24</td>
<td>0.10 - 1.00</td>
<td>NoGS</td>
<td>UNK</td>
<td>No</td>
<td>Filler</td>
</tr>
<tr>
<td>Diatomaceous Earth</td>
<td>68855-54-9</td>
<td>Pharos Chemical and Materials Library</td>
<td>2018-10-24</td>
<td>0.10 - 1.00</td>
<td>LT-UNK</td>
<td>UNK</td>
<td>No</td>
<td>Filler</td>
</tr>
<tr>
<td>Glucose</td>
<td>8029-43-4</td>
<td>Pharos Chemical and Materials Library</td>
<td>2018-10-24</td>
<td>0.10 - 1.00</td>
<td>NoGS</td>
<td>UNK</td>
<td>No</td>
<td>Binder</td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES:
- Kaolin clay used in this product is not regulated as a hazardous substance.
- This ingredient is a binder in the base board.
- This ingredient is a filler in the base board.
- This ingredient is a filler.
### Polyvinyl Acetate

**ID:** 9003-20-7  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2018-10-24  
**%:** 0.10 - 1.00  
**GS:** LT-UNK  
**RC:** UNK  
**NANO:** No  
**ROLE:** Binder

**WARNINGS:** None found  
**AGENCY AND LIST TITLES:**  
- No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** This ingredient is a binder in the base board.

### Quartz

**ID:** 14808-60-7  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2018-10-24  
**%:** 0.10 - 1.00  
**GS:** LT-1  
**RC:** UNK  
**NANO:** No  
**ROLE:** Filler

**WARNINGS:**  
- **CANCER**  
  - **US CDC - Occupational Carcinogens**  
  - Occupational Carcinogen  
  - **CA EPA - Prop 65**  
  - Carcinogen - specific to chemical form or exposure route  
  - **IARC**  
  - Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources  
  - **US NIH - Report on Carcinogens**  
  - Known to be Human Carcinogen (respirable size - occupational setting)  
  - **MAK**  
  - Carcinogen Group 1 - Substances that cause cancer in man  
  - **New Zealand - GHS**  
  - 6.7A - Known or presumed human carcinogens  
  - **Japan - GHS**  
  - Carcinogenicity - Category 1A  
  - **Australia - GHS**  
  - H350i - May cause cancer by inhalation

**SUBSTANCE NOTES:** Quartz is bound within the coating and is not inhalable. Accordingly, it is excluded from regulatory hazard lists. It is not in a respirable form in the final product.

### Silica

**ID:** 14464-46-1  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2018-10-24  
**%:** 0.10 - 1.00  
**GS:** LT-1  
**RC:** UNK  
**NANO:** No  
**ROLE:** Filler

**WARNINGS:** None found  
**AGENCY AND LIST TITLES:**  
- No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Polyvinyl Acetate used in this product is not regulated as a hazardous substance.
<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 1 - Agent is carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td>CANCER</td>
<td>US NIH - Report on Carcinogens</td>
<td>Known to be Human Carcinogen (respirable size - occupational setting)</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 1 - Substances that cause cancer in man</td>
</tr>
<tr>
<td>CANCER</td>
<td>New Zealand - GHS</td>
<td>6.7A - Known or presumed human carcinogens</td>
</tr>
<tr>
<td>CANCER</td>
<td>Japan - GHS</td>
<td>Carcinogenicity - Category 1A</td>
</tr>
<tr>
<td>CANCER</td>
<td>Australia - GHS</td>
<td>H350i - May cause cancer by inhalation</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Silica is bound within the coating and not inhalable. Accordingly, it is excluded from regulatory hazard lists. It is not in a respirable form in the final product.

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**STARCH**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2018-10-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.10 - 1.00</td>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
<tr>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This ingredient is a binder in the coating.

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**CALCIUM CARBONATE**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2018-10-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.01 - 0.10</td>
<td>GS: BM-3</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
<tr>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Calcium Carbonate used in this product is not regulated as a hazardous substance. Calcium Carbonate used in this product is not a registered pesticide under FIFRA. Calcium Carbonate is not registered as a persistent material.

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**POLY HYDROXY**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2018-10-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.01 - 0.10</td>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
<tr>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

Armstrong Commercial Dune Ceiling Panels hpdrepository.hpd-collaborative.org HPD v2.1.1 created via HPDC Builder Page 5 of 9
### Substance Notes:

This ingredient is a filler in the coating.

### Titanium Dioxide

**ID:** 13463-67-7

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

**HAZARD SCREENING DATE:** 2018-10-24

<table>
<thead>
<tr>
<th>%:</th>
<th>GS:</th>
<th>RC:</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01 - 0.10</td>
<td>LT-1</td>
<td>UNK</td>
<td>No</td>
<td>Pigment</td>
</tr>
</tbody>
</table>

#### Hazards

<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 bound within the coating and is not inhalable. Accordingly, it is excluded from regulatory hazard lists. It is not in a respirable form in the final product.
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>UL GreenGuard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue Date</td>
<td>Expiry Date</td>
</tr>
<tr>
<td>Certifier or Lab</td>
<td></td>
</tr>
<tr>
<td>UL Environment</td>
<td>UL Environment</td>
</tr>
<tr>
<td>2018-04-16</td>
<td>2020-05-02</td>
</tr>
</tbody>
</table>

### MULTI-ATTRIBUTE

<table>
<thead>
<tr>
<th>Certifying Party</th>
<th>Environmental Product Declaration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue Date</td>
<td>Expiry Date</td>
</tr>
<tr>
<td>Certifier or Lab</td>
<td></td>
</tr>
<tr>
<td>UL Environment</td>
<td>UL Environment</td>
</tr>
<tr>
<td>2016-03-31</td>
<td>2021-03-31</td>
</tr>
<tr>
<td><a href="https://www.armstrongceilings.com/content/dam/armstrongceilings/commercial/north-america/epds/dune-epd.pdf">https://www.armstrongceilings.com/content/dam/armstrongceilings/commercial/north-america/epds/dune-epd.pdf</a></td>
<td></td>
</tr>
<tr>
<td>Certification and Compliance Notes: <a href="https://www.armstrongceilings.com/content/dam/armstrongceilings/commercial/north-america/epds/dune-epd.pdf">https://www.armstrongceilings.com/content/dam/armstrongceilings/commercial/north-america/epds/dune-epd.pdf</a></td>
<td></td>
</tr>
</tbody>
</table>

### MULTI-ATTRIBUTE

<table>
<thead>
<tr>
<th>Certifying Party</th>
<th>Declare Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue Date</td>
<td>Expiry Date</td>
</tr>
<tr>
<td>Certifier or Lab</td>
<td></td>
</tr>
<tr>
<td>ILFI</td>
<td>ILFI</td>
</tr>
<tr>
<td>2019-10-18</td>
<td>2020-10-01</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.

No accessories are required for this product.
This HPD is provided solely for the intended recipient in connection with its assessment of products and for no other purpose. In providing information, AWI 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 provided herein is qualified in the entirety by reference to the applicable product Safety Data Sheet (SDS) which can be located at www.armstrongceilings.com, as well as by the additional ingredient information provided for specified substances. Please refer to the Armstrong Commercial Ceilings website for more information on this product. 

MANUFACTURER INFORMATION

MANUFACTURER: Armstrong World Industries
ADDRESS: 2500 Columbia Avenue
Lancaster PA 17603, USA
WEBSITE: armstrongceilings.com

CONTACT NAME: Anita Snader
TITLE: Sustainability manager
PHONE: 877-276-7876 option #2
EMAIL: techline@armstrongceilings.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

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

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.