FeltWorks™ Open Cell - Acoustical Panels by Armstrong World Industries

Health Product Declaration v2.2
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: (to be provided)
CLASSIFICATION: Acoustical Ceiling
PRODUCT DESCRIPTION: FeltWorks Open Cell panel kits redefine the visual plane and add acoustics to any interior space. Made from up to 60% recycled PET fibers, these easy to specify kits are available in 3 designs with short lead times: Ebbs & Flows, Peaks & Valleys, and Rectangular panels in varying depths. Install FeltWorks Open Cell panel kits individually or interlink to create a wall-to-wall visual.

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
- 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
--- | --- | --- | --- | ---
FELTWORKS™ OPEN CELL - ACOUSTICAL PANELS | POLYETHYLENE TEREPTHALATE | LT-UNK 1H-INDENE-1,3(2H)-DIONE, 2-(3-HYDROXY-2-QUINOLINYL)- | LT-UNK 2,7-NAPHTHALENEDISULFONIC ACID, 5-(ACETYLAMINO)-3-[[4-(ACETYLMAMINO) PHENYL]AZO]-4-HYDROXY-, DISODIUM SALT | LT-UNK 3H-INDOL-3-ONE, 2-(1,3-DIHYDRO-3-OXO-2H-INDOL-2-YLIDENE)-1,2-DIHYDRO- | LT-UNK BLUE TINT NoGS CARBON BLACK BM-1 | CAN TITANIUM DIOXIDE LT-1 | CAN END PHOSPHONIC ACID, OCTYL-, MONOETHYL ESTER, POTASSIUM SALT NoGS |

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 Gold
Other: ILFI Declare - Red List Free

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?
- Yes
- No
PREPARATOR: Self-Prepared
VERIFIER:
VERIFICATION #:
SCREENING DATE: 2020-05-26
PUBLISHED DATE: 2020-05-26
EXPIRY DATE: 2023-05-26
**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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### FELTWORKS™ OPEN CELL - ACOUSTICAL 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.

**OTHER PRODUCT NOTES:** More information on this product can be found at [www.armstrongceilings.com](http://www.armstrongceilings.com)

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### POLYETHYLENE TEREPHTHALATE

**ID:** 25038-59-9

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

**HAZARD SCREENING DATE:** 2020-05-26

**%:** 95.0000 - 100.0000

**GS:** LT-UNK

**RC:** PostC

**NANO:** Unknown

**SUBSTANCE ROLE:** Binder

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

None found

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Feltworks uses recycled PET from a variety of sources (e.g. PET bottles).

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### 1H-INDENE-1,3(2H)-DIONE, 2-(3-HYDROXY-2-QUINOLINYL)-

**ID:** 7576-65-0

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

**HAZARD SCREENING DATE:** 2020-05-26

**%:** 0.0000 - 5.0000

**GS:** LT-UNK

**RC:** None

**NANO:** Unknown

**SUBSTANCE ROLE:** Softener

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

None found

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Fiber processing agent

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### 2,7-NAPHTHALENEDISULFONIC ACID, 5-(ACETYLAMINO)-3-[[4-(ACETYLAMINO)PHENYL]AZO]-4-HYDROXY-, DISODIUM SALT

**ID:** 4321-69-1

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

**HAZARD SCREENING DATE:** 2020-05-26

**%:** 0.0000 - 5.0000

**GS:** LT-UNK

**RC:** None

**NANO:** Unknown

**SUBSTANCE ROLE:** Pigment

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SUBSTANCE NOTES: Pigment of red/purple. Substance not present in all colors.

3H-INDOL-3-ONE, 2-[(1,3-DIHYDRO-3-OXO-2H-INDOL-2-YLIDENE)-1,2-DIHYDRO-

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-05-26

ID: 482-89-3

%: 0.0000 - 5.0000
GS: LT-UNK
RC: None
NANO: Unknown
SUBSTANCE ROLE: Pigment

None found
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Yellow Pigment. Substance is not present in all colors.

BLUE TINT

ID: 28699-96-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-05-26

%: 0.0000 - 5.0000
GS: NoGS
RC: None
NANO: Unknown
SUBSTANCE ROLE: Pigment

None found
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance not found in all colors.

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-05-26

%: 0.0000 - 5.0000
GS: BM-1
RC: None
NANO: Unknown
SUBSTANCE ROLE: Pigment

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

CANCER
MAK
Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Substance is not present in all colors.
TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-05-26

%: 0.0000 - 5.0000
GS: LT-1
RC: None
NANO: Unknown
SUBSTANCE ROLE: Pigment

HAZARD TYPE

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:
Substance is not present in all colors.
Titanium Dioxide is bound within the coating and is not inhalable. Accordingly, it is excluded from regulatory hazard lists. Identified on the US EPA Safer Chemical List. It is not in a respirable form in the final product.

PHOSPHONIC ACID, OCTYL-, MONOETHYL ESTER, POTASSIUM SALT

ID: 68134-28-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-05-26

%: 0.0000 - 1.0000
GS: NoGS
RC: None
NANO: Unknown
SUBSTANCE ROLE: Processing regulator

HAZARD TYPE

None found

SUBSTANCE NOTES:
Finish oil used for processing

No warnings found on HPD Priority Hazard Lists
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 Gold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Third Party</td>
<td>UL Environment</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>all</td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2019-09-04</td>
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<tr>
<td>EXPIRY DATE:</td>
<td>2020-06-25</td>
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</tbody>
</table>


OTHER

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>ILFI Declare - Red List Free</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-declared</td>
<td>ILFI</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>all</td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2019-10-01</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td>2020-10-01</td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: Red List Free

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.

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, 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 Building 5B  
Lancaster PA 17603, United States  
**WEBSITE:** armstrongceilings.com  
**CONTACT NAME:** Anita Snader  
**TITLE:** Sustainability Manager  
**PHONE:** 17173966486  
**EMAIL:** alsnader@armstrongceilings.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

### KEY

<table>
<thead>
<tr>
<th>Hazard Types</th>
<th>LAN Land toxicity</th>
<th>PHY Physical hazard (flammable or reactive)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQU Aquatic toxicity</td>
<td>MAM Mammalian/systemic/organ toxicity</td>
<td>REP Reproductive</td>
</tr>
<tr>
<td>CAN Cancer</td>
<td>MUL Multiple</td>
<td>RES Respiratory sensitization</td>
</tr>
<tr>
<td>DEV Developmental toxicity</td>
<td>NEU Neurotoxicity</td>
<td>SKI Skin sensitization/irritation/corrosivity</td>
</tr>
<tr>
<td>END Endocrine activity</td>
<td>NF Not found on Priority Hazard Lists</td>
<td>UNK Unknown</td>
</tr>
<tr>
<td>EYE Eye irritation/corrosivity</td>
<td>OZO Ozone depletion</td>
<td></td>
</tr>
<tr>
<td>GEN Gene mutation</td>
<td>PBT Persistent, bioaccumulative, and toxic</td>
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<tr>
<td>GLO Global warming</td>
<td></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 (due to insufficient data)  
LT-P1 List Translator Possible 1 (Possible Benchmark-1)  
LT-1 List Translator 1 (Likely Benchmark-1)  
LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LT1 score.)  
NoGS No GreenScreen.

**Recycled Types**  
PreC Pre-consumer recycled content  
PostC Post-consumer recycled content  
UNK Inclusion of recycled content is unknown  
None Does not include recycled content

**Other Terms:**  
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

**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 version.
HPD and for compliance with the HPD standard noted.