FeltWorks™ Acoustical Panels by Armstrong World Industries

CLASSIFICATION: Acoustical Ceiling Treatment

PRODUCT DESCRIPTION: FeltWorks Acoustical Panels provide a soft visual and quieting acoustics in budget friendly 48" x 96" panels to control noise. Three unique installation options provide versatility to meet project needs.

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

Explaination(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
--- | --- | --- | --- | ---
FELTWORKS™ ACOUSTICAL PANELS | POLYETHYLENE TEREPTHALATE | LT-UNK | PHOSPHONIC ACID, METHYL-, BIS(5-ETHYL-2-METHYL-2,2-DIOXIDO-1,3,2-DIOXAPHOSPHORINAN-5-YL) METHYL ESTER, MIXT. WITH (5-ETHYL-2-METHYL-2-OXIDO-1,3,2-DIOXAPHOSPHORINAN-5-YL) METHYL METHYL METHYLPHOSPHONATE (PHOSPHONIC ACID) | NoGS | FATTY ACIDS, COCO, POLYMERS WITH BENZOIC ACID, PENTAERYTHRITOL AND PHTHALIC ANHYDRIDE | NoGS | TITANIUM DIOXIDE | LT-1 | CAN | END 9,10-ANTHRACENEDIONE, 1,1'-[[6-PHENYL-1,3,5-TRIAZINE- 2,4-DIYL]DIMINO]BIS- | LT-UNK | C. I. PIGMENT BLUE 15 | BM-3 | CARBON BLACK | LT-1 | CAN | DIIRON TRIOXIDE | BM-2 | CAN |

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 - LBC Compliant - Third Party Verified

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: 2019-09-04
PUBLISHED DATE: 2019-09-04
EXPIRY DATE: 2022-09-04

FeltWorks Acoustical Panels
hdprepository.hpd-collaborative.org

HPD v2.1.1 created via HPDC Builder Page 1 of 6
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

### FELTWORKS™ 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 FeltWorks(TM) can be found at armstrongceilings.com

### POLYETHYLENE TEREPTHALATE

**ID:** 25038-59-9

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

**HAZARD SCREENING DATE:** 2019-09-04

| %: | 95.00 - 100.00 |
| GS: | LT-UNK |
| RC: | PostC |
| ROLE: | Fiber Panel Structure |

**HAZARD TYPE**

None found

**AGENCY AND LIST TITLES**

No warnings found on HPD Priority Hazard Lists

**WARNINGS**

None found

**SUBSTANCE NOTES:** FeltWorks(TM) Panels are made with recycled PET from a variety of sources (e.g. PET Bottles).

### PHOSPHONIC ACID, METHYL-, BIS(5-ETHYL-2-METHYL-2,2-DIOXIDO-1,3,2-DIOXAPHOSPHORINAN-5-YL)METHYL ESTER, MIXT. WITH (5-ETHYL-2-METHYL-2-OXIDO-1,3,2-DIOXAPHOSPHORINAN-5-YL)METHYL METHYL METHYLPHOSPHONATE (PHOSPHONIC ACID)

**ID:** 170836-68-7

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

**HAZARD SCREENING DATE:** 2019-09-04

| %: | 1.00 - 4.00 |
| GS: | NoGS |
| RC: | None |
| NANO: | No |
| ROLE: | Processing oil |

**HAZARD TYPE**

None found

**AGENCY AND LIST TITLES**

No warnings found on HPD Priority Hazard Lists

**WARNINGS**

None found

**SUBSTANCE NOTES:** Processing oil for fibers

### FATTY ACIDS, COCO, POLYMERS WITH BENZOIC ACID, PENTAERYTHRITOL AND PHTHALIC ANHYDRIDE

**ID:** 68604-67-1

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

**HAZARD SCREENING DATE:** 2019-09-04

| %: | 0.30 - 0.60 |
| GS: | NoGS |
| RC: | None |
| NANO: | No |
| ROLE: | Polymer |

**HAZARD TYPE**

None found

**AGENCY AND LIST TITLES**

No warnings found on HPD Priority Hazard Lists

**WARNINGS**

None found

**SUBSTANCE NOTES:**
### TITANIUM DIOXIDE

**ID:** 13463-67-7

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-09-04

<table>
<thead>
<tr>
<th>%: 0.00 - 1.00</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: Unknown</th>
<th>ROLE: Pigment</th>
</tr>
</thead>
</table>

**Hazard Type**  
**Agency and List Titles**  
**Warnings**

<table>
<thead>
<tr>
<th>CANCER</th>
<th>US CDC - Occupational Carcinogens</th>
<th>Occupational Carcinogen</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>

**Endocrine**  
**Agency and List Titles**  
**Warnings**

<table>
<thead>
<tr>
<th>ENDOCRINE</th>
<th>TEDX - Potential Endocrine Disruptors</th>
<th>Potential Endocrine Disruptor</th>
</tr>
</thead>
</table>

**Substance Notes:**
This substance is identified on the US EPA Safer Chemical Ingredient List. 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. Specific guidelines are being created to address known issues related to disclosure of this material and will become available. The Material health harmonization Task Group convened by the USGBC states that pigmentary Ti02 was determined to be BM2 using the full GS method.

### 9,10-ANTHRACENEDIONE, 1,1'-(6-PHENYL-1,3,5-TRIAZINE-2,4-DIYL)DIMINO)BIS-

**ID:** 4118-16-5

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-09-04

<table>
<thead>
<tr>
<th>%: 0.00 - 1.00</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: Unknown</th>
<th>ROLE: Pigment</th>
</tr>
</thead>
</table>

**Hazard Type**  
**Agency and List Titles**  
**Warnings**

<table>
<thead>
<tr>
<th>CANCER</th>
<th>MAK</th>
<th>Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value</th>
</tr>
</thead>
</table>

**Substance Notes:**
This substance is a yellow pigment. This substance is not present in all colors.

### C. I. PIGMENT BLUE 15

**ID:** 147-14-8

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-09-04

<table>
<thead>
<tr>
<th>%: 0.00 - 1.00</th>
<th>GS: BM-3</th>
<th>RC: None</th>
<th>NANO: Unknown</th>
<th>ROLE: Pigment</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------</td>
<td>----------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Substance is not present in all colors. Contact manufacturer if more information is required.

### CARBON BLACK

**ID:** 1333-86-4

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-09-04

<table>
<thead>
<tr>
<th>%: 0.00 - 1.00</th>
<th>GS: LT-1</th>
<th>RO: None</th>
<th>NANO: Unknown</th>
<th>ROLE: Pigment</th>
</tr>
</thead>
</table>

<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>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Substance is not present in all colors. Contact the manufacturer if more information is needed.

### DIIRON TRIOXIDE

**ID:** 1309-37-1

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-09-04

<table>
<thead>
<tr>
<th>%: 0.00 - 1.00</th>
<th>GS: BM-2</th>
<th>RO: None</th>
<th>NANO: Unknown</th>
<th>ROLE: Pigment</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This substance is a red/brown pigment. Substance is not present in all colors. Contact manufacturer if more information is required.
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.

<table>
<thead>
<tr>
<th>Certification Type</th>
<th>Certifying Party</th>
<th>Applicable Facilities</th>
<th>Certificate URL</th>
<th>Issue Date</th>
<th>Expiry Date</th>
<th>Certifier or Lab</th>
</tr>
</thead>
</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.

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, Lancaster Pennsylvania 17603, United States  
**WEBSITE:** www.armstrongceilings.com  
**CONTACT NAME:** Anita Snader  
**TITLE:** Sustainability Manager  
**PHONE:** 7173966486  
**EMAIL:** alsnader@armstrong.com

### KEY

<table>
<thead>
<tr>
<th>Hazard Types</th>
<th>Component Types</th>
<th>Inventory Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet</td>
<td>GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet</td>
<td></td>
</tr>
<tr>
<td>AQU Aquatic toxicity</td>
<td>CAN Cancer</td>
<td>Nested Method / Material Threshold</td>
</tr>
<tr>
<td>DEV Developmental toxicity</td>
<td>END Endocrine activity</td>
<td>Substances listed within each material per threshold indicated per material</td>
</tr>
<tr>
<td>EYE Eye irritation/corrosivity</td>
<td>GEN Gene mutation</td>
<td>Nestled Method / Product Threshold</td>
</tr>
<tr>
<td>GLO Global warming</td>
<td>MAM Mammalian/systemic/organ toxicity</td>
<td>Substances listed within each material per threshold indicated per product</td>
</tr>
<tr>
<td>MUL Multiple hazards</td>
<td>NEU Neurotoxicity</td>
<td>Basic Method / Product Threshold</td>
</tr>
<tr>
<td>OZO Ozone depletion</td>
<td>PBT Persistent Bioaccumulative Toxic</td>
<td>Substances listed individually per threshold indicated per product</td>
</tr>
<tr>
<td>PHY Physical Hazard (reactive)</td>
<td>REP Reproductive toxicity</td>
<td>Nano Composed of nano scale particles or nanotechnology</td>
</tr>
<tr>
<td>RES Respiratory sensitization</td>
<td>SKI Skin sensitization/irritation/corrosivity</td>
<td>Third Party Verified Verification by independent certifier approved by HPDC</td>
</tr>
<tr>
<td>LAN Land Toxicity</td>
<td>NF Not found on Priority Hazard Lists</td>
<td>Preparer Third party preparer, if not self-prepared by manufacturer</td>
</tr>
<tr>
<td>MT Non Toxicity</td>
<td>MUL Multiple hazards</td>
<td>Applicable facilities Manufacturing sites to which testing applies</td>
</tr>
</tbody>
</table>

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.