ACOUSTIBUILT™ Fine Texture Finish by Armstrong World Industries

CLASSIFICATION: Ceiling System

PRODUCT DESCRIPTION: New seamless acoustical ceiling system offering monolithic visual and TOTAL ACOUSTICS performance.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

<table>
<thead>
<tr>
<th>Inventory Reporting Format</th>
<th>Threshold level</th>
<th>Residuals/Impurities</th>
<th>Residuals/Impurities Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nested Materials Method</td>
<td>100 ppm</td>
<td>Considered</td>
<td>Yes Ex/SC</td>
</tr>
<tr>
<td>Basic Method</td>
<td>1,000 ppm</td>
<td>Partially Considered</td>
<td>Yes Ex/SC</td>
</tr>
<tr>
<td></td>
<td>Per GHS SDS</td>
<td>Not Considered</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Per OSHA MSDS</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 |
----------|-----------|----------------------|-------------------|-------------|
ACOUSTIBUILT™ FINE TEXTURE FINISH | CALCIUM CARBONATE | LT-UNK | TITANIUM DIOXIDE | LT-1 | CAN | END KIESSELGUHR, SODA ASH FLUX-CALCINED | LT-UNK | CALCIUM CARBONATE | BM-3 | ALUMINUM HYDROXIDE | BM-2 | RES CRISTOBALITE | (SIO2) | LT-1 | CAN | POLYVINYL ACETATE | LT-UNK | AMORPHOUS SILICA | LT-P1 | CAN | α-D-GLUCOPYRANOSANIDES, 6-O-ACETYL-1,3,4-TRIS-O-(2-METHYL-1-OXOPROPYL)-8-D-FRUCTOFURANOSYL, 6-ACETATE | 2,3,4-TRIS(2-METHYLPROPAANOATE) | LT-UNK | FATTY ACIDS OIL | NoGS | GLYCERIDES, MIXED DECANOYL AND OCTANOYL | LT-UNK | SORBITAN, MONO-9-OCTADECENOATE, POLY(OXY-1,2-ETHANEDIYL) DERIVS., (Z)- | LT-P1 | END QUARTZ | LT-1 | CAN | POLY(OXY-1,2-ETHANEDIYL), α-SULFO-ω-HYDROXY-, C12-14-ALKYL ETHERS, SODIUM SALTS | LT-UNK | POLY(OXY-1,2-ETHANEDIYL), α-ISOTRIDECYL-ω-HYDROXY-, PHOSPHATE | LT-P1 | MUL ETHOXYLATE | NoGS | HECTORITE | LT-UNK | POLY(OXY-1,2-ETHANEDIYL), α-HYDRO-ω-HYDROXY- | LT-UNK | SORBITAN, MONO-9-OCTADECENOATE, (Z) | LT-UNK | TALL OIL, FATTY ACIDS | LT-UNK | DIROPYCYLE GLYCER Methyl Ether | LT-UNK | PROPICONAZOLE | (ISO); | (α)-1-[2-(2,4-DICHLOROPHENYL)-4-PROPYL-1,3-DIOXOLAN-2-YLMETHYL]-1H,1,2,4-TRIAZOLE | LT-1 | AOU | SKI | DEL | END | MUL | REP AMMONIUM HYDROXIDE, NOS | LT-P1 | RES | AOU | SKI | MUL | LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED | LT-1 | CAN | MUL | XANTHAN GUM | LT-UNK | SODIUM HYDROXIDE | LT-P1 | SKI | PHY LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED | LT-1 | CAN | MUL |

INVENTORY AND SCREENING NOTES:

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

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

VOC emissions: UL GreenGuard
LCA: Environmental Product Declaration
Other: ILFI Declare - Red List Free
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Yes</td>
<td>VERIFIER:</td>
<td>PUBLISHED DATE: 2019-06-06</td>
</tr>
<tr>
<td>☒ No</td>
<td>VERIFICATION #:</td>
<td>EXPIRY DATE: 2022-06-06</td>
</tr>
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</table>

ACOUSTIBUILT Fine Texture Finish
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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)

### ACOUSTIBUILT™ FINE TEXTURE FINISH

**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:** This finish is part of the ACOUSTIBUILT panel system.  

### CALCIUM CARBONATE

**ID:** 1317-65-3

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-06

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.00 - 35.00</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

None found  

**WARNINGS**

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

### TITANIUM DIOXIDE

**ID:** 13463-67-7

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-06-06

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.00 - 35.00</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
</tr>
<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>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
<td></td>
<td></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>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels</td>
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</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers. 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.

**KIESELGUHR, SODA ASH FLUX-CALCINED**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-06</th>
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<tr>
<td>%:</td>
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<tr>
<td></td>
<td></td>
<td>RC: None</td>
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<tr>
<td></td>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ROLE: Filler/degloss</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGENCY AND LIST TITLES</td>
<td></td>
<td>WARNINGS</td>
</tr>
<tr>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

**CALCIUM CARBONATE**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-06</th>
</tr>
</thead>
<tbody>
<tr>
<td>%:</td>
<td>5.00 - 20.00</td>
<td>GS: BM-3</td>
</tr>
<tr>
<td></td>
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<td>RC: None</td>
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<tr>
<td></td>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ROLE: Pigment</td>
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<tr>
<td>HAZARD TYPE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGENCY AND LIST TITLES</td>
<td></td>
<td>WARNINGS</td>
</tr>
<tr>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

**ALUMINUM HYDROXIDE**

<table>
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<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-06-06</th>
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<tr>
<td>%:</td>
<td>5.00 - 10.00</td>
<td>GS: BM-2</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ROLE: Pigment</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGENCY AND LIST TITLES</td>
<td></td>
<td>WARNINGS</td>
</tr>
<tr>
<td>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.
### CRISTOBALITE (SiO2)

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESPIRATORY</td>
<td>AOEC - Asthmagens</td>
<td>Asthmagen (Rs) - sensitizer-induced</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

#### CRISTOBALITE (SiO2)

**ID:** 14464-46-1

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

**HAZARD SCREENING DATE:** 2019-06-06

| %: 0.00 - 10.00 | GS: LT-1 | RC: None | NANO: No | ROLE: Filler/degloss |

<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:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers. This ingredient 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.

### POLYVINYL ACETATE

**ID:** 9003-20-7

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

**HAZARD SCREENING DATE:** 2019-06-06

| %: 0.00 - 5.00 | GS: LT-UNK | RC: None | NANO: Unknown | ROLE: Binder |

<table>
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<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
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</thead>
</table>

None found

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

### AMORPHOUS SILICA

**ID:** 7631-86-9

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

**HAZARD SCREENING DATE:** 2019-06-06

| %: 0.00 - 5.00 | GS: LT-P1 | RC: None | NANO: No | ROLE: Pigment |

None found

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
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</thead>
<tbody>
<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:** The range on this ingredient is provided to protect the specific formulation from the manufacturer and suppliers. 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.

**α-D-GLUCOPYRANOSIDE, 6-O-ACETYL-1,3,4-TRIS-O-(2-METHYL-1-OXOPROPYL)-6-D-FRUCTOFURANOSYL, 6-ACETATE 2,3,4-TRIS(2-METHYLPROPAANOATE)**

ID: 126-13-6

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

**HAZARD SCREENING DATE:** 2019-06-06

<table>
<thead>
<tr>
<th>%: 0.00 - 5.00</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Humectant</th>
</tr>
</thead>
</table>

**HAZARD TYPE** | AGENCY AND LIST TITLES | WARNINGS
None found | No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

**FATTY ACIDS OIL**

ID: 91051-70-6

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

**HAZARD SCREENING DATE:** 2019-06-06

<table>
<thead>
<tr>
<th>%: 0.00 - 1.00</th>
<th>GS: NoGS</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Humectant</th>
</tr>
</thead>
</table>

**HAZARD TYPE** | AGENCY AND LIST TITLES | WARNINGS
None found | No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from the manufacturer and suppliers.

**GLYCERIDES, MIXED DECANOYL AND OCTANOYL**

ID: 73398-61-5

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

**HAZARD SCREENING DATE:** 2019-06-06

<table>
<thead>
<tr>
<th>%: 0.00 - 1.00</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Humectant</th>
</tr>
</thead>
</table>

**HAZARD TYPE** | AGENCY AND LIST TITLES | WARNINGS
None found | No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

**SORBITAN, MONO-9-OCTADECENOATE, POLY(OXY-1,2-ETHANEDIYL) DERIVS., (Z)**

ID: 9005-65-6
## HAZARD SCREENING METHOD
Pharos Chemical and Materials Library

### HAZARD SCREENING DATE
2019-06-06

### %
0.00 - 1.00

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
</tbody>
</table>

### SUBSTANCE NOTES
The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

### GS
LT-P1

### ROLE
Humectant

### GS
LT-1

### ROLE
Filler

### ID
14808-60-7

### HAZARD SCREENING METHOD
Pharos Chemical and Materials Library

### HAZARD SCREENING DATE
2019-06-06

### %
0.00 - 1.00

### ROLE
Filler

### HAZARD TYPE
CANCER

### AGENCY AND LIST TITLES
IARC

### WARNINGS
Group 1 - Agent is Carcinogenic to humans

### AGENCY AND LIST TITLES
US CDC - Occupational Carcinogens

### WARNINGS
Occupational Carcinogen

### AGENCY AND LIST TITLES
CA EPA - Prop 65

### WARNINGS
Carcinogen - specific to chemical form or exposure route

### AGENCY AND LIST TITLES
IARC

### WARNINGS
Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources

### AGENCY AND LIST TITLES
US NIH - Report on Carcinogens

### WARNINGS
Known to be Human Carcinogen (respirable size - occupational setting)

### AGENCY AND LIST TITLES
MAK

### WARNINGS
Carcinogen Group 1 - Substances that cause cancer in man

### AGENCY AND LIST TITLES
New Zealand - GHS

### WARNINGS
6.7A - Known or presumed human carcinogens

### AGENCY AND LIST TITLES
Japan - GHS

### WARNINGS
Carcinogenicity - Category 1A

### AGENCY AND LIST TITLES
Australia - GHS

### WARNINGS
H350i - May cause cancer by inhalation

### SUBSTANCE NOTES
The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers. 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.

### POLY(OXY-1,2-ETHANEDIYL), α-SULFO-ω-HYDROXY-, C12-14-ALKYL ETHERS, SODIUM SALTS

### ID
68891-38-3

### HAZARD SCREENING METHOD
Pharos Chemical and Materials Library

### HAZARD SCREENING DATE
2019-06-06

### %
0.00 - 1.00

<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>

### ROLE
Binder

### GS
LT-UNK

### ID
ACOUSTIBUILT Fine Texture Finish

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POLY(OXY-1,2-ETHANEDIYL), α-ISOTRIDECYL-ω-HYDROXY-, PHOSPHATE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-06-06

%: 0.00 - 1.00
GS: LT-P1
RC: None
NANO: No
ROLE: Dispersent

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS
MULTIPLE
German FEA - Substances Hazardous to Waters
Class 2 - Hazard to Waters

SUBSTANCE NOTES: The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

ETHOXYLATE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-06-06

%: 0.00 - 1.00
GS: NoGS
RC: None
NANO: No
ROLE: Wetting Agent

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS
None found
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

HECTORITE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-06-06

%: 0.00 - 1.00
GS: LT-UNK
RC: None
NANO: No
ROLE: Thickner

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS
None found
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

POLY(OXY-1,2-ETHANEDIYL), α-HYDRO-ω-HYDROXY-

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-06-06

%: 0.00 - 0.10
GS: LT-UNK
RC: None
NANO: No
ROLE: Humectant

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS
None found
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

SORBITAN, MONO-9-OCTADECENOATE, (Z)-

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-06-06

%: 0.00 - 0.10
GS: LT-UNK
RC: None
NANO: No
ROLE: Humectant

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS
None found
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.
<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>Tall Oil, Fatty Acids</td>
<td>61790-12-3</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-06</td>
<td>0.00 - 0.10</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Humectant</td>
</tr>
<tr>
<td>Dipropylene Glycol Methyl Ether</td>
<td>34590-94-8</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-06</td>
<td>0.00 - 0.10</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Preservative</td>
</tr>
<tr>
<td>Propiconazole (ISO); (±)-1-[(2-(2,4-Dichlorophenyl)-4-Propyl-1,3-Dioxolan-2-Ylmethyl)-1H-1,2,4-Triazole</td>
<td>60207-90-1</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-06-06</td>
<td>0.00 - 0.10</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Preservative</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES: The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.**

No warnings found on HPD Priority Hazard Lists
### AMMONIUM HYDROXIDE, NOS

**ID:** 1336-21-6

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

**HAZARD SCREENING DATE:** 2019-06-06

<table>
<thead>
<tr>
<th>%: 0.00 - 0.10</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Binder</th>
</tr>
</thead>
</table>

#### WARNINGS

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESPIRATORY</td>
<td>AOEC - Asthmagens</td>
<td>Asthmagen (Rs) - sensitizer-induced</td>
</tr>
<tr>
<td>RESPIRATORY</td>
<td>AOEC - Asthmagens</td>
<td>Asthmagen (Rr&amp;Rs) - irritant-induced &amp; sensitizer-induced</td>
</tr>
<tr>
<td>ACUTE AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H400 - Very toxic to aquatic life</td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H314 - Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

### LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED

**ID:** 72623-86-0

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

**HAZARD SCREENING DATE:** 2019-06-06

<table>
<thead>
<tr>
<th>%: 0.00 - 0.10</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Defoamer</th>
</tr>
</thead>
</table>

#### WARNINGS

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACUTE AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H400 - Very toxic to aquatic life</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>EU - GHS (H-Statements)</td>
<td>H350 - May cause cancer</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - REACH Annex XVII CMRs</td>
<td>Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>ChemSec - SIN List</td>
<td>CMR - Carcinogen, Mutagen &amp;/or Reproductive Toxicant</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 3 - Severe Hazard to Waters</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - Annex VI CMRs</td>
<td>Carcinogen Category 1B - Presumed Carcinogen based on animal evidence</td>
</tr>
<tr>
<td>CANCER</td>
<td>Australia - GHS</td>
<td>H350 - May cause cancer</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

### XANTHAN GUM

**ID:** 11138-66-2

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

**HAZARD SCREENING DATE:** 2019-06-06

| %: 0.00 - 0.10 | GS: LT-UNK | RC: None | NANO: No | ROLE: Thickner |

**HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |

None found | No warnings found on HPD Priority Hazard Lists |

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

### SODIUM HYDROXIDE

**ID:** 1310-73-2

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

**HAZARD SCREENING DATE:** 2019-06-06

| %: 0.00 - 0.10 | GS: LT-P1 | RC: None | NANO: No | ROLE: Biocide |

**HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |

SKIN IRRITATION | EU - GHS (H-Statements) | H314 - Causes severe skin burns and eye damage |

PHYSICAL HAZARD (REACTIVE) | Korea - GHS | H290 - May be corrosive to metals |

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.

### LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED

**ID:** 72623-87-1

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

**HAZARD SCREENING DATE:** 2019-06-06

<p>| %: 0.00 - 0.10 | GS: LT-1 | RC: None | NANO: No | ROLE: Defoamer |</p>
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>EU - GHS (H-Statements)</td>
<td>H350 - May cause cancer</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - REACH Annex XVII CMRs</td>
<td>Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>ChemSec - SIN List</td>
<td>CMR - Carcinogen, Mutagen &amp;/or Reproductive Toxicant</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 3 - Severe Hazard to Waters</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - Annex VI CMRs</td>
<td>Carcinogen Category 1B - Presumed Carcinogen based on animal evidence</td>
</tr>
<tr>
<td>CANCER</td>
<td>Australia - GHS</td>
<td>H350 - May cause cancer</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The range on this ingredient is provided to protect the specific formulation from manufacturer and suppliers.
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>VOC EMISSIONS</th>
<th>UL GreenGuard</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY: UL Environment</td>
<td>ISSUE DATE: 2019-06-06</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES: all</td>
<td>EXPIRY DATE: 2020-03-08</td>
</tr>
<tr>
<td>CERTIFICATE URL: <a href="https://spot.ul.com/customerportal/single-product-details/46/137836">https://spot.ul.com/customerportal/single-product-details/46/137836</a></td>
<td>CERTIFIER OR LAB: UL</td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: GreenGuard Gold Certification

<table>
<thead>
<tr>
<th>LCA</th>
<th>Environmental Product Declaration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY: UL Environment</td>
<td>ISSUE DATE: 2019-04-03</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES: No Facilities</td>
<td>EXPIRY DATE: 2021-03-31</td>
</tr>
<tr>
<td>CERTIFICATE URL: <a href="http://armstrongceilings.com/acoustibuilt">http://armstrongceilings.com/acoustibuilt</a></td>
<td>CERTIFIER OR LAB: UL</td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: Product Specific EPD

<table>
<thead>
<tr>
<th>OTHER</th>
<th>ILFI Declare - Red List Free</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY: Third Party</td>
<td>ISSUE DATE: 2019-06-01</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES: all</td>
<td>EXPIRY DATE: 2020-06-01</td>
</tr>
<tr>
<td>CERTIFICATE URL: <a href="https://living-future.org/declare-products/acoustibuilt-fine-texture-finish/">https://living-future.org/declare-products/acoustibuilt-fine-texture-finish/</a></td>
<td>CERTIFIER OR LAB: ILFI</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.

ACOUSTIBUILT PANELS

HPD URL: armstrongceilings.com/acoustibuilt

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
Companion Panel System

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. https://www.armstrongceilings.com/commercial/en-us/commercial-ceilings-walls/acoustibuilt-ceiling-panels.html#redirect_term=ACOUSTIBuilt
MANUFACTURER INFORMATION

MANUFACTURER: Armstrong World Industries
ADDRESS: 2500 Columbia Avenue
Building 5B
Lancaster PA 17603, United States
WEBSITE: armstrongceilings.com/acoustibuilt

CONTACT NAME: Armstrong Techline, Anita Snader
Sustainability Manager
TITLE: Technical services
PHONE: 17173966486
EMAIL: alsnader@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
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
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.