CONTENT INVENTORY

<table>
<thead>
<tr>
<th>Inventory Reporting Format</th>
<th>Threshold level</th>
<th>Residuals/Impurities</th>
<th>All Substances Above the Threshold Indicated Are:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nested Materials Method</td>
<td>100 ppm</td>
<td>Considered</td>
<td>Characterized</td>
</tr>
<tr>
<td>Basic Method</td>
<td>1,000 ppm</td>
<td>Partially Considered</td>
<td>% weight and role provided for all substances.</td>
</tr>
<tr>
<td>Threshold Disclosed Per</td>
<td>Per GHS SDS</td>
<td>Not Considered</td>
<td>Screened</td>
</tr>
<tr>
<td>Material</td>
<td>Other</td>
<td>Yes</td>
<td>Yes Ex/SC</td>
</tr>
<tr>
<td>Product</td>
<td></td>
<td>No</td>
<td>Yes Ex/SC</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
---|---|---|---|---
DUNE CEILING PANELS [ PERLITE | Not Screened | CELLULOSE | Not Screened | CALCIUM CARBONATE | Not Screened | LUBRICATING OIL | Not Screened | HYDROXYETHYLCELLULOSE | Not Screened | POLYETHYLENE | GLYCOL | Not Screened | CALCIUM CARBONATE | Not Screened | TITANIUM | DIOXIDE | Not Screened | QUARTZ | Not Screened | ETHYLATED STARCH | Not Screened | POLYVINYL ACETATE | Not Screened | HYDROXY STARCH | Not Screened | FATTY ACIDS | Not Screened | SILICA | Not Screened | DIATOMACEOUS EARTH | Not Screened | POLYCARBOXYLIC SALT | Not Screened | CLAY | Not Screened | CORN STARCH | Not Screened | FIBERGLASS | Not Screened | MINERAL WOOL | Not Screened |

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 Certified
Other: ILFI Declare - Red List Free

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:
SCREENING DATE: 2021-09-14
PUBLISHED DATE: 2021-09-14
EXPIRY DATE: 2024-09-14
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 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

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.
OTHER PRODUCT 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.

PERLITE

ID: 130885-09-5
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: Not Screened

<table>
<thead>
<tr>
<th>%: 45.0000 - 60.0000</th>
<th>GS: Not Screened</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Filler</th>
</tr>
</thead>
</table>

SUBSTANCE NOTES: Filler

CELLULOSE

ID: 9004-34-6
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: Not Screened

<table>
<thead>
<tr>
<th>%: 15.0000 - 30.0000</th>
<th>GS: Not Screened</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Binder</th>
</tr>
</thead>
</table>

SUBSTANCE NOTES: Binder

CALCIUM CARBONATE

ID: 1317-65-3
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: Not Screened

<table>
<thead>
<tr>
<th>%: 5.0000 - 15.0000</th>
<th>GS: Not Screened</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Filler</th>
</tr>
</thead>
</table>

SUBSTANCE NOTES: In this product it is not regulated as a hazardous substance. In this product, it is not a registered pesticide under FIFRA. It is not registered persistent material.

LUBRICATING OIL

ID: 72623-87-1
<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>SUBSTANCE ROLE</th>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
<th>SUBSTANCE NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUBRICATING OIL</td>
<td>72623-86-0</td>
<td>Pharos Chemical and Materials Library</td>
<td>Not Screened</td>
<td>0.0000 - 0.1000</td>
<td>Not Screened</td>
<td>None</td>
<td>Unknown</td>
<td>Defoamer</td>
<td></td>
<td></td>
<td></td>
<td>Defoamer</td>
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<tr>
<td>HYDROXYETHYLCELLULOSE</td>
<td>9004-62-0</td>
<td>Pharos Chemical and Materials Library</td>
<td>Not Screened</td>
<td>0.0000 - 0.1000</td>
<td>Not Screened</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
<td></td>
<td></td>
<td></td>
<td>Filler</td>
</tr>
<tr>
<td>CELLULOSE ETHER</td>
<td>9004-58-4</td>
<td>Pharos Chemical and Materials Library</td>
<td>Not Screened</td>
<td>0.0000 - 0.1000</td>
<td>Not Screened</td>
<td>None</td>
<td>No</td>
<td>Viscosity modifier</td>
<td></td>
<td></td>
<td></td>
<td>Viscosity modifier</td>
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<tr>
<td>POLYETHYLENE GLYCOL</td>
<td>60828-78-6</td>
<td>Pharos Chemical and Materials Library</td>
<td>Not Screened</td>
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<td>Not Screened</td>
<td>None</td>
<td>No</td>
<td>Surfactant</td>
<td></td>
<td></td>
<td></td>
<td>Surfactant</td>
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<td>CALCIUM CARBONATE</td>
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<td>Substance</td>
<td>ID</td>
<td>HAZARD SCREENING METHOD</td>
<td>HAZARD SCREENING DATE</td>
<td>%:</td>
<td>GS:</td>
<td>RC:</td>
<td>NANO:</td>
<td>SUBSTANCE ROLE</td>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td>SUBSTANCE NOTES</td>
</tr>
<tr>
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<tr>
<td><strong>TITANIUM DIOXIDE</strong></td>
<td>13463-67-7</td>
<td>Pharos Chemical and Materials Library</td>
<td>Not Screened</td>
<td>0.0000 - 0.1000</td>
<td>Not Screened</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
<td>Hazard Screening not performed</td>
<td></td>
<td>It is bound by the adhesives within the coating. It is not in a respirable form in the final product. Accordingly, it is excluded from regulatory hazards list.</td>
<td></td>
</tr>
<tr>
<td><strong>QUARTZ</strong></td>
<td>14808-60-7</td>
<td>Pharos Chemical and Materials Library</td>
<td>Not Screened</td>
<td>0.0000 - 1.0000</td>
<td>Not Screened</td>
<td>None</td>
<td>No</td>
<td>Impurity</td>
<td>Hazard Screening not performed</td>
<td></td>
<td>It is bound by the adhesives within the coating. It is not in a respirable form in the final product. Accordingly, it is excluded from regulatory hazards list.</td>
<td></td>
</tr>
<tr>
<td><strong>ETHYLATED STARCH</strong></td>
<td>9005-27-0</td>
<td>Pharos Chemical and Materials Library</td>
<td>Not Screened</td>
<td>0.0000 - 1.0000</td>
<td>Not Screened</td>
<td>None</td>
<td>No</td>
<td>Binder</td>
<td>Hazard Screening not performed</td>
<td></td>
<td>Binder</td>
<td></td>
</tr>
<tr>
<td><strong>POLYVINYL ACETATE</strong></td>
<td>9003-20-7</td>
<td>Pharos Chemical and Materials Library</td>
<td>Not Screened</td>
<td>0.0000 - 1.0000</td>
<td>Not Screened</td>
<td>None</td>
<td>No</td>
<td>Binder</td>
<td>Hazard Screening not performed</td>
<td></td>
<td>In this product it is not regulated as a hazardous substance. In this product, it is not a registered pesticide under FIFRA. It is not registered persistent material.</td>
<td></td>
</tr>
<tr>
<td>Substance</td>
<td>ID</td>
<td>Hazard Screening Method</td>
<td>HAZARD SCREENING DATE</td>
<td>%:</td>
<td>GS</td>
<td>RC</td>
<td>NANO</td>
<td>SUBSTANCE ROLE</td>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td>SUBSTANCE NOTES</td>
</tr>
<tr>
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</tr>
<tr>
<td>HYDROXY STARCH</td>
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<td>Pharos Chemical and Materials Library</td>
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<td>0.0000 - 1.0000</td>
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<td>No</td>
<td>Binder</td>
<td>Hazard Screening not performed</td>
<td></td>
<td>Binder</td>
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</tr>
<tr>
<td>FATTY ACIDS</td>
<td>68424-16-8</td>
<td>Pharos Chemical and Materials Library</td>
<td>Not Screened</td>
<td>0.0000 - 1.0000</td>
<td>Not Screened</td>
<td>None</td>
<td>No</td>
<td>Binder</td>
<td>Hazard Screening not performed</td>
<td></td>
<td>Binder</td>
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</tr>
<tr>
<td>SILICA</td>
<td>14464-46-1</td>
<td>Pharos Chemical and Materials Library</td>
<td>Not Screened</td>
<td>0.0000 - 1.0000</td>
<td>Not Screened</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
<td>Hazard Screening not performed</td>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>DIATOMACEOUS EARTH</td>
<td>68855-54-9</td>
<td>Pharos Chemical and Materials Library</td>
<td>Not Screened</td>
<td>0.0000 - 1.0000</td>
<td>Not Screened</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
<td>Hazard Screening not performed</td>
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<td>Filler</td>
<td></td>
</tr>
<tr>
<td>POLYCARBOXYLIC SALT</td>
<td>68424-16-8</td>
<td>Pharos Chemical and Materials Library</td>
<td>Not Screened</td>
<td>0.0000 - 5.0000</td>
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<td>None</td>
<td>No</td>
<td>Surfactant</td>
<td>Hazard Screening not performed</td>
<td></td>
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</tr>
</tbody>
</table>
CLAY

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: Not Screened

%: 0.0000 - 5.0000
GS: Not Screened
RC: None
NANO: No
SUBSTANCE ROLE: Filler

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES: In this product it is not regulated as a hazardous substance. In this product, it is not a registered pesticide under FIFRA. It is not registered persistent material.

CORN STARCH

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: Not Screened

%: 0.0000 - 5.0000
GS: Not Screened
RC: None
NANO: No
SUBSTANCE ROLE: Binder

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES: Binder

FIBERGLASS

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: Not Screened

%: 0.0000 - 10.0000
GS: Not Screened
RC: None
NANO: Unknown
SUBSTANCE ROLE: Structure component

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES: Structure Component

MINERAL WOOL

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: Not Screened

%: 0.0000 - 10.0000
GS: Not Screened
RC: None
NANO: No
SUBSTANCE ROLE: Filler

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES: Filler
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 Gold Certified</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY: Third Party</td>
<td>UL/GreenGuard Gold Certified</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES: N/A</td>
<td>CERTIFYING PARTY: Third Party</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td>ISSUE DATE: 2018-04-16</td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES:</td>
<td>EXPIRY DATE: 2022-05-02</td>
</tr>
<tr>
<td></td>
<td>CERTIFIER OR LAB: UL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OTHER</th>
<th>ILFI Declare - Red List Free</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY: Self-declared</td>
<td>CERTIFYING PARTY: Self-declared</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES: N/A</td>
<td>ISSUE DATE: 2021-10-01</td>
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<td>CERTIFICATE URL:</td>
<td>ISSUE DATE: 2021-10-01</td>
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<td>EXPIRY DATE: 2022-10-01</td>
</tr>
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<td></td>
<td>CERTIFIER OR LAB: ILFI</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.

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.
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.