

HPD UNIQUE IDENTIFIER: 21749

CLASSIFICATION: 09 51 00 Acoustical Ceilings

PRODUCT DESCRIPTION: Smooth-textured Optima panels provide excellent acoustical absorption and more standard-size options than any other texture in the line. This absorptive ceiling panel meets USDA/FSIS guidelines for use in food preparation/kitchens, and Clean Room assemblies; and exceeds FGI Guidelines for acoustics and cleanability in general healthcare spaces.

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

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](#)

OPTIMA PB (PLANT BASED) HEALTHZONE CEILING SYSTEM [FIBERGLASS LT-UNK STARCH NoGS CALCIUM CARBONATE LT-UNK CALCIUM MAGNESIUM CARBONATE NoGS CALCIUM CARBONATE BM-3 POLYVINYL ACETATE LT-UNK TITANIUM DIOXIDE LT-1 | CAN | END VEGETABLE OIL NoGS ALUMINUM TRIHYDRATE BM-2 POLYVINYL ALCOHOL LT-UNK PLASTICIZER LT-P1 | MUL MICA LT-UNK SODA ASH LT-UNK FATTY OIL NoGS WATER REPELLANT NoGS]

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Residuals / impurities in select raw materials are quantitatively measured and are displayed in the HPD when greater than 1000ppm.

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
LCA: Environmental Product Declaration (EPD) by UL - Industry Generic
Other: ILFI Declare - LBC Compliant

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: 2020-09-17

PUBLISHED DATE: 2020-09-17

EXPIRY DATE: 2023-09-17



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

OPTIMA PB (PLANT BASED) HEALTHZONE CEILING SYSTEM

PRODUCT THRESHOLD: 1000 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 1000ppm.

OTHER PRODUCT NOTES: For more information on Armstrong Optima PB HealthZone, visit <https://www.armstrongceilings.com/commercial/en-us/commercial-ceilings-walls/optima-health-zone-ceiling-tiles.html>

FIBERGLASS

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-09-17

#: 65.0000 - 85.0000

GS: LT-UNK

RC: Both

NANO: Unknown

SUBSTANCE ROLE: Structure component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: base material

STARCH

ID: 60323-79-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-09-17

#: 5.0000 - 10.0000

GS: NoGS

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: binder

CALCIUM CARBONATE

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-09-17

#: 0.0000 - 15.0000

GS: LT-UNK

RC: None

NANO: Unknown

SUBSTANCE ROLE: Filler

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

CALCIUM MAGNESIUM CARBONATE

ID: **16389-88-1**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-09-17		
%: 0.0000 - 5.0000	GS: NoGS	RC: None	NANO: Unknown	SUBSTANCE ROLE: Filler
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Filler				

CALCIUM CARBONATE

ID: **471-34-1**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-09-17		
%: 0.0000 - 5.0000	GS: BM-3	RC: None	NANO: Unknown	SUBSTANCE ROLE: Filler
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Filler				

POLYVINYL ACETATE

ID: **9003-20-7**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-09-17		
%: 0.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Adhesive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
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.				

TITANIUM DIOXIDE

ID: **13463-67-7**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-09-17		
%: 0.0000 - 5.0000	GS: LT-1	RC: None	NANO: Unknown	SUBSTANCE ROLE: Pigment

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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: Pigment. This ingredient is not in respirable form in this product. It is bound in the coating.

VEGETABLE OIL

ID: 68918-91-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-09-17**

#: **0.0000 - 5.0000** GS: **NoGS** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Surface modifier**

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

SUBSTANCE NOTES: coating

ALUMINUM TRIHYDRATE

ID: 21645-51-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-09-17**

#: **0.0000 - 5.0000** GS: **BM-2** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Filler**

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

SUBSTANCE NOTES: filler

POLYVINYL ALCOHOL

ID: 9002-89-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-09-17**

#: **0.0000 - 5.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

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

SUBSTANCE NOTES: Binder

PLASTICIZER

ID: 27138-31-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2020-09-17**%: **0.0000 - 5.0000**GS: **LT-P1**RC: **None**NANO: **No**SUBSTANCE ROLE: **Adhesive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES: **Adhesive****MICA**

ID: 12001-26-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2020-09-17**%: **0.0000 - 1.0000**GS: **LT-UNK**RC: **None**NANO: **Unknown**SUBSTANCE ROLE: **Filler**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: 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.

SODA ASH

ID: 68855-54-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2020-09-17**%: **0.0000 - 1.0000**GS: **LT-UNK**RC: **None**NANO: **Unknown**SUBSTANCE ROLE: **Filler**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Filler****FATTY OIL**

ID: 68604-67-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2020-09-17**%: **0.0000 - 1.0000**GS: **NoGS**RC: **None**NANO: **No**SUBSTANCE ROLE: **Surface modifier**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **coating ingredient****WATER REPELLANT**

ID: 63148-57-2

#: **0.0000 - 1.0000**

GS: **NoGS**

RC: **None**

NANO: **Unknown**

SUBSTANCE ROLE: **Surface modifier**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **coating ingredient**

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

UL/GreenGuard Gold Certified

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2018-**

EXPIRY DATE: **2021-**

CERTIFIER OR LAB: **UL**

APPLICABLE FACILITIES: **all**

04-16

04-16

Environment

CERTIFICATE URL:

<https://www.armstrongceilings.com/pdbupimages-clg/224244.pdf/download/optima-pb-greenguard-certificate.pdf>

CERTIFICATION AND COMPLIANCE NOTES: **UL GG Gold**

LCA

Environmental Product Declaration (EPD) by UL - Industry Generic

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2016-**

EXPIRY DATE: **2021-**

CERTIFIER OR LAB: **UL**

APPLICABLE FACILITIES: **all**

03-31

03-31

Environment

CERTIFICATE URL:

<https://www.armstrongceilings.com/pdbupimages-clg/221363.pdf/download/epd-optima-ceiling-panels.pdf>

CERTIFICATION AND COMPLIANCE NOTES: **Product Specific EPD**

OTHER

ILFI Declare - LBC Compliant

CERTIFYING PARTY: **Second Party**

ISSUE DATE: **2019-**

EXPIRY DATE: **2021-**

CERTIFIER OR LAB: **ILFI**

APPLICABLE FACILITIES: **all**

10-01

10-01

CERTIFICATE URL:

<https://www.armstrongceilings.com/pdbupimages-clg/224464.pdf/download/declare-label-optima-pb-ceiling-panels-oh-.pdf>

CERTIFICATION AND COMPLIANCE NOTES:

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 PA 17603, USA
 WEBSITE: **www.armstrongceilings.com**

CONTACT NAME: **Anita Snader**
 TITLE: **Sustainability Manager**
 PHONE: **1-877-276-7876**
 EMAIL: **techline@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

Hazard Types

AQU Aquatic toxicity	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	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 LTP1 score.)
BM-2 Benchmark 2 (use but search for safer substitutes)	NoGS No GreenScreen.
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)	

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 and for compliance with the HPD standard noted.