Section 1: Summary

Nested 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
- Residuals/Impurities Considered in 2 of 2 Materials
- 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

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/or one or more Special Condition did not follow guidance.

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
--- | --- | --- | --- | ---
AIRRENEW M2TECH CORE BOARD | CALCIUM SULFATE DIHYDRATE LT-UNK | PARAFFIN LT-UNK | UNDISCLOSED NoGS SODIUM POLYPHENOL SULFONATE LT-P1 | FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT LT-UNK | POTASSIUM SULFATE LT-UNK | POLY(VINYL ALCOHOL) LT-UNK | PORTLAND CEMENT LT-P1 | CEMENT | CAN POLY(OXY-1,2-ETHANEDIYL), ALPHA-SULFO-OMEGA-HYDROXY-, C8-10-ALKYL ETHERS, AMMONIUM SALTS LT-UNK | GLUCOSE BM-3 | PROTEIN HYDROLYZATE [USP] NoGS | 2-NAPHTHALENESULFONIC ACID, POLYMER WITH FORMALDEHYDE, SODIUM SALT LT-UNK | PBT POLY(METHYLHYDROSILOXANE) NoGS | PAPER FACING [ CELLULOSE PULP NoGS LIMESTONE; CALCIUM CARBONATE LT-UNK | KAOLIN, LT-UNK | ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL LT-UNK | STARCH LT-UNK |

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
All materials have been screened thru the HPD tool. All residuals and impurities have been considered. HPD has been reviewed and certified by a third party.

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 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings
VOC content: UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

CONSISTENCY WITH OTHER PROGRAMS
No pre-checks completed or disclosed.
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, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-standard](http://www.hpd-collaborative.org/hpd-2-1-standard)

<table>
<thead>
<tr>
<th>AIRRENEW ® M2TECH ® CORE BOARD</th>
<th>%: 95.5000 - 98.5000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRODUCT THRESHOLD:</strong></td>
<td>100 ppm</td>
</tr>
<tr>
<td><strong>RESIDUALS AND IMPURITIES CONSIDERED:</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>RESIDUALS AND IMPURITIES NOTES:</strong></td>
<td>Naturally occurring impurities and residuals in the gypsum are evaluated through quality checks, data is available at the manufacturing locations.</td>
</tr>
<tr>
<td><strong>OTHER MATERIAL NOTES:</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CALCIUM SULFATE DIHYDRATE</th>
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<tbody>
<tr>
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<td>Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td><strong>HAZARD SCREENING DATE:</strong></td>
<td>2019-02-06</td>
</tr>
<tr>
<td><strong>%:</strong></td>
<td>90.0000 - 93.0000</td>
</tr>
<tr>
<td><strong>GS:</strong></td>
<td>LT-UNK</td>
</tr>
<tr>
<td><strong>RC:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>NANO:</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>ROLE:</strong></td>
<td>Core of the Board</td>
</tr>
<tr>
<td><strong>HAZARD TYPE</strong></td>
<td></td>
</tr>
<tr>
<td><strong>AGENCY AND LIST TITLES</strong></td>
<td></td>
</tr>
<tr>
<td><strong>WARNINGS</strong></td>
<td>No hazards found</td>
</tr>
<tr>
<td><strong>SUBSTANCE NOTES:</strong></td>
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<table>
<thead>
<tr>
<th>PARAFFIN</th>
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<td>Pharos Chemical and Materials Library</td>
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<td><strong>HAZARD SCREENING DATE:</strong></td>
<td>2019-02-06</td>
</tr>
<tr>
<td><strong>%:</strong></td>
<td>2.2500 - 3.7500</td>
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<tr>
<td><strong>GS:</strong></td>
<td>LT-UNK</td>
</tr>
<tr>
<td><strong>RC:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>NANO:</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>ROLE:</strong></td>
<td>Moisture resistance to core</td>
</tr>
<tr>
<td><strong>HAZARD TYPE</strong></td>
<td></td>
</tr>
<tr>
<td><strong>AGENCY AND LIST TITLES</strong></td>
<td></td>
</tr>
<tr>
<td><strong>WARNINGS</strong></td>
<td>No hazards found</td>
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<tr>
<td><strong>SUBSTANCE NOTES:</strong></td>
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<td>Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td><strong>HAZARD SCREENING DATE:</strong></td>
<td>2019-02-06</td>
</tr>
<tr>
<td><strong>%:</strong></td>
<td>0.1500 - 1.5000</td>
</tr>
<tr>
<td><strong>GS:</strong></td>
<td>NoGS</td>
</tr>
<tr>
<td><strong>RC:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>NANO:</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>ROLE:</strong></td>
<td>Indoor Air Quality Additive</td>
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<td><strong>HAZARD TYPE</strong></td>
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<tr>
<td><strong>AGENCY AND LIST TITLES</strong></td>
<td></td>
</tr>
<tr>
<td><strong>WARNINGS</strong></td>
<td>No hazards found</td>
</tr>
</tbody>
</table>
## SODIUM POLYNAPHTALENESULFONATE

**ID:** 9084-06-4

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

**HAZARD SCREENING DATE:** 2019-02-06

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<tr>
<th>%:</th>
<th>0.1000 - 0.5000</th>
<th>GS:</th>
<th>LT-P1</th>
<th>RC:</th>
<th>None</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE: gypsum crystallization</th>
</tr>
</thead>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

- Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans

**SUBSTANCE NOTES:** R&D is working to replace this material due its potential human health concerns.

## FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT

**ID:** 65997-17-3

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

**HAZARD SCREENING DATE:** 2019-02-06

<table>
<thead>
<tr>
<th>%:</th>
<th>0.0500 - 0.7500</th>
<th>GS:</th>
<th>LT-UNK</th>
<th>RC:</th>
<th>None</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE: panel strength</th>
</tr>
</thead>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

- No hazards found

**SUBSTANCE NOTES:**

## POTASSIUM SULFATE

**ID:** 7778-80-5

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

**HAZARD SCREENING DATE:** 2019-02-06

<table>
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<tr>
<th>%:</th>
<th>0.0500 - 0.3500</th>
<th>GS:</th>
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<th>RC:</th>
<th>None</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE: crystal formation</th>
</tr>
</thead>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

- No hazards found

**SUBSTANCE NOTES:**

## POLY(VINYL ALCOHOL)

**ID:** 9002-89-5

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

**HAZARD SCREENING DATE:** 2019-02-06

<table>
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<tr>
<th>%:</th>
<th>0.0200 - 0.0300</th>
<th>GS:</th>
<th>LT-UNK</th>
<th>RC:</th>
<th>None</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE: binder in wax</th>
</tr>
</thead>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

- No hazards found

**SUBSTANCE NOTES:**
PORTLAND CEMENT

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-02-06

%: 0.0100 - 0.7500
GS: LT-P1
RC: None
NANO: No
ROLE: panel strength

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS
ENDORCINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor
CANCER MAK Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Industrial hygiene monitoring is conducted during the manufacturing process as well as the cutting process to ensure worker safety

POLY(OXY-1,2-ETHANEDIYL), ALPHA-SULFO-OMEGA-HYDROXY-, C8-10-ALKYL ETHERS, AMMONIUM SALTS

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-02-06

%: 0.0100 - 0.1000
GS: LT-UNK
RC: None
NANO: No
ROLE: Gypsum core development

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS
No hazards found

SUBSTANCE NOTES:

GLUCOSE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-02-06

%: 0.0100 - 0.0400
GS: BM-3
RC: None
NANO: No
ROLE: crystal setting time

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS
No hazards found

SUBSTANCE NOTES:

PROTEIN HYDROLYSATE [USP]

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-02-06

%: 0.0100 - 0.0400
GS: NoGS
RC: None
NANO: No
ROLE: crystal setting time

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS
No hazards found

SUBSTANCE NOTES:
<table>
<thead>
<tr>
<th>Material</th>
<th>ID</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
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<th>GS:</th>
<th>RC:</th>
<th>NANO:</th>
<th>ROLE</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-NAPHTHALENESULFONIC ACID, POLYMER WITH FORMALDEHYDE, SODIUM SALT</td>
<td>36290-04-7</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-02-06</td>
<td>0.0000 - 0.1100</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>gypsum crystallization</td>
<td>Persistent, Bioaccumulative and inherently Toxic (PBITH) to humans</td>
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<tr>
<td>POLY(METHYLHYDROSILOXANE)</td>
<td>63148-57-2</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-02-06</td>
<td>0.0000 - 0.4000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Board strength development</td>
<td>No hazards found</td>
</tr>
<tr>
<td>PAPER FACING</td>
<td></td>
<td></td>
<td></td>
<td>2.5000 - 5.7500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Residuals and impurities are considered and noted when appropriate.</td>
</tr>
<tr>
<td>CELLULOSE PULP</td>
<td></td>
<td></td>
<td></td>
<td>85.0000 - 92.0000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Facing on front and back of board</td>
<td>No hazards found</td>
</tr>
<tr>
<td>LIMESTONE; CALCIUM CARBONATE</td>
<td>1317-65-3</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-02-06</td>
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<td></td>
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<tr>
<td>Substance</td>
<td>CAS Number</td>
<td>HAZARD SCREENING METHOD</td>
<td>HAZARD SCREENING DATE</td>
<td>%:</td>
<td>GS:</td>
<td>RC:</td>
<td>NANO:</td>
<td>ROLE:</td>
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<td>-----</td>
<td>-----</td>
<td>-------</td>
<td>-------</td>
<td></td>
</tr>
<tr>
<td><strong>KAOLIN, CALCINED</strong></td>
<td>92704-41-1</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-02-06</td>
<td>2.0000 - 7.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Filler pigment in paper</td>
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</tr>
<tr>
<td><strong>ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL</strong></td>
<td>25213-24-5</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-02-06</td>
<td>0.1000 - 0.5000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>bond edge tape to core</td>
<td></td>
</tr>
<tr>
<td><strong>STARCH</strong></td>
<td>9005-25-8</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-02-06</td>
<td>0.1000 - 0.5000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>binder for paper</td>
<td></td>
</tr>
</tbody>
</table>
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 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: All certificate # 13497-420
CERTIFICATE URL:
ISSUE DATE: 2009-03-11
EXPIRY DATE: 2019-07-13
CERTIFIER OR LAB: UL
CERTIFICATION AND COMPLIANCE NOTES: UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

VOC CONTENT

UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES:
CERTIFICATE URL:
ISSUE DATE: 2009-03-11
EXPIRY DATE: 2018-03-11
CERTIFIER OR LAB: UL
CERTIFICATION AND COMPLIANCE NOTES: Certificate Number 29581-420

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

All CertainTeed Gypsum wallboard products should be handled and installed per the requirements of the manufacturers SDS.
MANUFACTURER INFORMATION

MANUFACTURER: Saint Gobain
ADDRESS: CertainTeed Gypsum 20 Moores Road, Malvern PA 19355, United States
WEBSITE: www.certainteed.com

CONTACT NAME: Mitchell Schittler
TITLE: Gypsum Marketing Technical Services
PHONE: 6108936300
EMAIL: Mitchell.L.Schittler@saint-gobain.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)

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)

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.