CLASSIFICATION: 09 29 00.00 Finishes: Gypsum Board

PRODUCT DESCRIPTION: Air Renew ® Essential Gypsum wallboard products in 1/2 and 5/8 inch boards

Section 1: Summary

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 in 2 of 2 Materials

Residuals/Impurities
- Characterized
  - Yes Ex/SC
  - Yes
  - No
- Screened
  - Yes Ex/SC
  - Yes
  - No
- Identified
  - Yes Ex/SC
  - Yes
  - No

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 ESSENTIALS CORE BOARD | CALCIUM SULFATE DIHYDRATE | LT-UNK | END |
MINERAL WOOL, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤ 18 % BY WEIGHT | LT-UNK | END |
POLYMETHYLHYDROSILOXANE | NoGS | PORTLAND CEMENT | LT-P1 |
POLY(1,2-ETHANEDIYL), ALPHA-SULFO-OMEGA-HYDROXY-, C8-10-ALKYL ETHERS, AMMONIUM SALTS | LT-UNK | END |
GLUCOSE | BM-3 | PROTEIN HYDROLYSATE [USP] | LT-UNK |
2-NAPHTHALENESULFONIC ACID, POLYMER WITH FORMALDEHYDE, SODIUM SALT | LT-P1 | END |
QUARTZ | LT-1 | CAN |
PAPER FACING | CELLULOSE, MICROCRYSTALLINE | LT-UNK |
LIMESTONE, CALCIUM CARBONATE | LT-UNK |
KAOLIN, CALCINED | LT-UNK |
STARCH | LT-UNK |
ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL | LT-UNK |

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

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

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER: 
VERIFICATION #: 
SCREENING DATE: 2019-02-06
PUBLISHED DATE: 2019-02-06
EXPIRY DATE: 2022-02-06
# 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)

---

**AIRRENEW ESSENTIALS CORE BOARD**

<table>
<thead>
<tr>
<th>PRODUCT THRESHOLD:</th>
<th>100 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDUALS AND IMPURITIES CONSIDERED:</td>
<td>Yes</td>
</tr>
</tbody>
</table>

RESIDUALS AND IMPURITIES NOTES: Naturally occurring impurities and residuals in the gypsum are evaluated through quality checks, data is available at the manufacturing locations.

OTHER MATERIAL NOTES:

---

**CALCIUM SULFATE DIHYDRATE**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD:</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD SCREENING DATE:</td>
<td>2019-02-06</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>%:</th>
<th>92.0000 - 97.0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS:</td>
<td>LT-UNK</td>
</tr>
<tr>
<td>RC:</td>
<td>None</td>
</tr>
<tr>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>ROLE:</td>
<td>Core of the panel</td>
</tr>
</tbody>
</table>

HAZARD TYPE

<table>
<thead>
<tr>
<th>AGENCY AND LIST TITLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARNINGS</td>
</tr>
</tbody>
</table>

No hazards found

SUBSTANCE NOTES: Naturally occurring impurities and residuals in the gypsum are considered and evaluated through QA checks,

---

**STARCH (PRIMARY CASRN IS 9005-25-8)**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD:</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD SCREENING DATE:</td>
<td>2019-02-06</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>%:</th>
<th>2.0000 - 5.0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS:</td>
<td>LT-UNK</td>
</tr>
<tr>
<td>RC:</td>
<td>None</td>
</tr>
<tr>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>ROLE:</td>
<td>Binder for core board</td>
</tr>
</tbody>
</table>

HAZARD TYPE

<table>
<thead>
<tr>
<th>AGENCY AND LIST TITLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARNINGS</td>
</tr>
</tbody>
</table>

No hazards found

SUBSTANCE NOTES:

---

**UNDISCLOSED**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD:</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD SCREENING DATE:</td>
<td>2019-02-06</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>%:</th>
<th>0.15000 - 1.5000</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS:</td>
<td>LT-UNK</td>
</tr>
<tr>
<td>RC:</td>
<td>None</td>
</tr>
<tr>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>ROLE:</td>
<td>Indoor air quality ingredient</td>
</tr>
</tbody>
</table>

HAZARD TYPE

<table>
<thead>
<tr>
<th>AGENCY AND LIST TITLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARNINGS</td>
</tr>
</tbody>
</table>

No hazards found
### MINERAL WOOL, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤ 18 % BY WEIGHT

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Hazards Screening Date</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2019-02-06</td>
<td>0.0500 - 0.7500</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Panel strength</td>
</tr>
</tbody>
</table>

No hazards found

**Substance Notes:** Proprietary IAQ ingredient, no none risks

### POLY(METHYLHYDROSILOXANE)

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Hazards Screening Date</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2019-02-06</td>
<td>0.0200 - 0.0500</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>binder</td>
</tr>
</tbody>
</table>

No hazards found

**Substance Notes:**

### PORTLAND CEMENT

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Hazards Screening Date</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2019-02-06</td>
<td>0.0100 - 0.7500</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Panel strenght</td>
</tr>
</tbody>
</table>

**Warnings:**
- **Endocrine:** TEDX - Potential Endocrine Disruptors
- **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, see PPE recommendations on SDS.

### SODIUM POLYNAPHTALENESULFONATE

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Hazards Screening Date</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2019-02-06</td>
<td>0.0100 - 0.5000</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Gypsum crystal formation</td>
</tr>
</tbody>
</table>

**Substance Notes:**
<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>Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C8-10-alkyl ethers, ammonium salts</td>
<td>68891-29-2</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-02-06</td>
<td>0.0100 - 0.1000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Gypsum core development</td>
</tr>
<tr>
<td>glucose</td>
<td>50-99-7</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-02-06</td>
<td>0.0100 - 0.0400</td>
<td>BM-3</td>
<td>None</td>
<td>No</td>
<td>Gypsum crystal setting time</td>
</tr>
<tr>
<td>protein hydrolysate [USP]</td>
<td>9015-54-7</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-02-06</td>
<td>0.0100 - 0.0400</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Gypsum crystal setting time</td>
</tr>
<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></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Substance Notes:**
- Due to the potentially hazardous nature of this material, R&D is actively seeking an alternative.
Gypsum Crystal Formation

**PBT**

EC - CEPA DSL

Persistent, Bioaccumulative, and inherently Toxic (PBTH) to humans

**SUBSTANCE NOTES:** Due to the potentially hazardous nature of this material, R&D is actively seeking an alternative.

**QUARTZ**

**ID:** 14808-60-7

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

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

**%:** Impurity/Residual

**GS:** LT-1

**RC:** None

**NANO:** No

**ROLE:** Impurity/Residual

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

**CANCER**

IARC

Group 1 - Agent is Carcinogenic to humans

US CDC - Occupational Carcinogens

Occupational Carcinogen

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

IARC

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

US NIH - Report on Carcinogens

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

MAK

Carcinogen Group 1 - Substances that cause cancer in man

New Zealand - GHS

6.7A - Known or presumed human carcinogens

Japan - GHS

Carcinogenicity - Category 1A

Australia - GHS

H350i - May cause cancer by inhalation

**SUBSTANCE NOTES:** Quartz is a naturally occurring contaminant in Gypsum and it is monitored at the sites.

**PAPER FACING**

**%:** 2.5000 - 5.7500

**PRODUCT THRESHOLD:** 100 ppm

**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**RESIDUALS AND IMPURITIES NOTES:** Naturally occurring impurities and residuals in the paper are considered and evaluated thru QA checks,

**OTHER MATERIAL NOTES:**

**CELLULOSE, MICROCRYSTALLINE**

**ID:** 9004-34-6

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

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

**%:** 85.0000 - 92.0000

**GS:** NoGS

**RC:** None

**NANO:** No

**ROLE:** paper facing
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>HAZARD SCREENING DATE: 2019-02-06</th>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>%: 4.0000 - 9.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Filler pigment in paper</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIMESTONE, CALCIUM CARBONATE</td>
<td>1317-65-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td>Naturally occurring impurities and residuals in the paper are evaluated, data is available at the manufacturing locations.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>HAZARD SCREENING DATE: 2019-02-06</th>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>%: 2.0000 - 7.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Filler pigment in paper</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>KAOLIN, CALCINED</td>
<td>92704-41-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>HAZARD SCREENING DATE: 2019-02-06</th>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>%: 0.1000 - 0.5000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Binder for paper</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>STARCH</td>
<td>9005-25-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>HAZARD SCREENING DATE: 2019-02-06</th>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>%: 0.1000 - 0.5000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: bond paper to core board</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL</td>
<td>25213-24-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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**

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All certificate # 29581-420</td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>UL</td>
</tr>
</tbody>
</table>

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

| ISSUE DATE: | 2009-03-11 |
| EXPIRY DATE: | 2019-07-13 |

**CERTIFICATION AND COMPLIANCE NOTES:**

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

---

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: 20 Moores Road
Malvern PA 19335, USA
WEBSITE: https://www.certainteed.com/drywall/

CONTACT NAME: Mitchell Schittler
TITLE: Gypsum Marketing Technical Services
PHONE: 610-893-3000
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 toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SK1 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.