ToughRock® Fire Resistant Gypsum Board

**Product Description:**
This HPD covers the following ToughRock® Fire Resistant Gypsum Boards: ToughRock® Fireguard® X 45 Gypsum Board, ToughRock® Fireguard® X 45 Stretch 54 Gypsum Board, ToughRock® Fireguard® X 45 Stretch 66 Gypsum Board, ToughRock® Fireguard® C Gypsum Board, ToughRock® Fireguard® C Stretch 54 Gypsum Board, ToughRock® Sound Deadening Board, ToughRock® Fireguard® X Veneer Base Board, ToughRock® Fireguard® C Soffit Board, and ToughRock® Shaftliner. Made of fire-rated gypsum boards with paper-facings on the front, back, and long edges which are tapered or squared, these gypsum boards are used on interior walls and ceilings and exterior walls and soffit applications where fire protection is required.

**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

**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**


**Volatile Organic Compound (VOC) Content**
VOC Content data is not applicable for this product category.

**Certifications and Compliance:**
VOC emissions: UL/GreenGuard Gold Certified

**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 2.2, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-2-standard](http://www.hpd-collaborative.org/hpd-2-2-standard)

### TOUGHROCK® FIRE RESISTANT GYPSUM BOARD

<table>
<thead>
<tr>
<th>PRODUCT THRESHOLD:</th>
<th>1000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDUALS AND IMPURITIES CONSIDERED:</td>
<td>Yes</td>
</tr>
<tr>
<td>RESIDUALS AND IMPURITIES NOTES:</td>
<td>Georgia-Pacific worked with the HPDC Approved Preparer to confirm that all residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 ppm threshold.</td>
</tr>
<tr>
<td>OTHER PRODUCT NOTES:</td>
<td></td>
</tr>
<tr>
<td>UNDISCLOSED CHEMICAL</td>
<td>ID: Undisclosed</td>
</tr>
<tr>
<td>HAZARD SCREENING METHOD:</td>
<td>Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td>HAZARD SCREENING DATE:</td>
<td>2021-10-13 12:17:17</td>
</tr>
<tr>
<td>%:</td>
<td>0.0000 - 0.7500</td>
</tr>
<tr>
<td>GS:</td>
<td>LT-P1</td>
</tr>
<tr>
<td>RC:</td>
<td>None</td>
</tr>
<tr>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>SUBSTANCE ROLE:</td>
<td>Adhesive</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
</tr>
<tr>
<td>WARNINGS</td>
<td>MUL: German FEA - Substances Hazardous to Waters</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The HPDC Approved Preparer obtained full disclosure down to the 1,000 ppm threshold for the trade name ingredient containing this chemical. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance. 3

### SC:CELLULOSE PULP

| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library |
| HAZARD SCREENING DATE: | Not Screened |
| %: | 0.0000 - 1.8600 |
| GS: | Not Screened |
| RC: | None |
| NANO: | No |
| SUBSTANCE ROLE: | Structure component |

**SUBSTANCE NOTES:**

Version: SCBioMats/2018-02-23
Category: Tree-based materials
Identifier: Cellulose, CAS# 65996-61-4

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

### STARCH

| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library |
| HAZARD SCREENING DATE: | 2021-11-03 8:29:26 |
| %: | 0.0000 - 0.1800 |
| GS: | LT-UNK |
| RC: | None |
| NANO: | No |
| SUBSTANCE ROLE: | Structure component |

**SUBSTANCE NOTES:**

None found

No warnings found on HPD Priority Hazard Lists
## ETHYL ACETATE

**ID:** 141-78-6  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2021-10-13 12:17:14

### HAZARD LEVELS

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>SUBSTANCE ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0000 - 0.1250</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Ink</td>
</tr>
</tbody>
</table>

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

**PHY**  
EU - GHS (H-Statements)  
H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]

| EYE | EU - GHS (H-Statements) | H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A] |

### SUBSTANCE NOTES:

The GreenScreen® Benchmark assessment score of LT-UNK was provided through the HPD 2.2 Builder Tool.

---

## ETHANOL

**ID:** 64-17-5  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2021-10-13 12:14:55

### HAZARD LEVELS

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>SUBSTANCE ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0000 - 0.4050</td>
<td>BM-2</td>
<td>None</td>
<td>No</td>
<td>Ink</td>
</tr>
</tbody>
</table>

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

**CAN**  
CA EPA - Prop 65  
Carcinogen - specific to chemical form or exposure route

| END | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |

**CAN**  
IARC  
Group 1 - Agent is Carcinogenic to humans

**CAN**  
MAK  
Carcinogen Group 5 - Genotoxic carcinogen with very slight risk under MAK/BAT levels

**DEV**  
CA EPA - Prop 65  
Developmental - specific to chemical form or exposure route

**CAN**  
GHS - Japan  
H350 - May cause cancer [Carcinogenicity - Category 1A]

**PHY**  
EU - GHS (H-Statements)  
H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]

**REP**  
GHS - Japan  
H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1A]

### SUBSTANCE NOTES:

The GreenScreen® Benchmark assessment score of BM-2 was provided through the HPD 2.2 Builder Tool.

---

## ACETONE

**ID:** 67-64-1  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2021-10-13 12:14:12

### HAZARD LEVELS

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<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>SUBSTANCE ROLE</th>
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</thead>
<tbody>
<tr>
<td>0.0000 - 0.4500</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Ink</td>
</tr>
</tbody>
</table>

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

---

**CAN**  
CA EPA - Prop 65  
Carcinogen - specific to chemical form or exposure route

| END | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |

**CAN**  
IARC  
Group 1 - Agent is Carcinogenic to humans

**CAN**  
MAK  
Carcinogen Group 5 - Genotoxic carcinogen with very slight risk under MAK/BAT levels

**DEV**  
CA EPA - Prop 65  
Developmental - specific to chemical form or exposure route

**CAN**  
GHS - Japan  
H350 - May cause cancer [Carcinogenicity - Category 1A]

**PHY**  
EU - GHS (H-Statements)  
H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]

**REP**  
GHS - Japan  
H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1A]
**DL-TARTARIC ACID**

**ID:** 133-37-9  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2021-10-13 12:13:05  
**%:** 0.0000 - 0.5000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Tensile strength additive

**PHY**

**EU - GHS (H-Statements)**  
**WARNINGS**  
**H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]**

**EYE**

**EU - GHS (H-Statements)**  
**WARNINGS**  
**H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]**

**SUBSTANCE NOTES:**

---

**UNDISCLOSED CHEMICAL**

**ID:** Undisclosed  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2021-10-13 12:12:27  
**%:** 0.0000 - 0.1500  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Blowing agent

**SUBSTANCE NOTES:** The HPDC Approved Preparer obtained full disclosure down to the 1,000 ppm threshold for the trade name ingredient containing this chemical. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

---

**PENTASODIUM PENTETATE**

**ID:** 140-01-2  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2021-10-13 12:17:14  
**%:** 0.0000 - 0.2000  
**GS:** LT-P1  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Chelating agent

**MUL**

**German FEA - Substances Hazardous to Waters**  
**CLASS:** 2 - Hazard to Waters

---

**POTASSIUM SULFATE**

**ID:** 7778-80-5  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2021-10-13 12:17:15  
**%:** 0.0000 - 0.5000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Accelerator
<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>

**SUBSTANCE NOTES:**

**UNDISCLOSED CHEMICAL**

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2021-10-13 12:17:16

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<th>%: 0.0000 - 0.1000</th>
<th>GS: NoGS</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Adhesive</th>
</tr>
</thead>
</table>

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The HPDC Approved Preparer obtained full disclosure down to the 1,000 ppm threshold for the trade name ingredient containing this chemical. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

**UNDISCLOSED CHEMICAL**

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2021-10-13 12:17:16

<table>
<thead>
<tr>
<th>%: 0.0000 - 0.2000</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Adhesive</th>
</tr>
</thead>
</table>

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The HPDC Approved Preparer obtained full disclosure down to the 1,000 ppm threshold for the trade name ingredient containing this chemical. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

**CALCIUM SULFATE DIHYDRATE**

ID: 10101-41-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2021-10-13 12:17:19

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<th>%: 0.0000 - 97.0200</th>
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<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Structure component</th>
</tr>
</thead>
</table>

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

**FIBERGLASS**

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2021-10-13 12:17:17

<table>
<thead>
<tr>
<th>%: 0.0000 - 1.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Structure component</th>
</tr>
</thead>
</table>

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:
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<th>Substance</th>
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<th>HAZARD SCREENING DATE</th>
<th>%: 0.0000 - 1.0000</th>
<th>GS:</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE:</th>
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</thead>
<tbody>
<tr>
<td>BORIC ACID</td>
<td>Pharos Chemical and Materials Library</td>
<td>2021-10-13 12:17:18</td>
<td>0.0000 - 1.0000</td>
<td>LT-1</td>
<td></td>
<td></td>
<td>Tensile strength additive</td>
</tr>
<tr>
<td>GLUCOSE</td>
<td>Pharos Chemical and Materials Library</td>
<td>2021-10-13 12:17:18</td>
<td>0.0000 - 1.0000</td>
<td>BM-3</td>
<td></td>
<td></td>
<td>Accelerator</td>
</tr>
<tr>
<td>AMMONIUM Sulfate</td>
<td>Pharos Chemical and Materials Library</td>
<td>2021-10-13 12:17:13</td>
<td>0.0000 - 1.0000</td>
<td>LT-P1</td>
<td></td>
<td></td>
<td>Accelerator</td>
</tr>
<tr>
<td>CALCIUM LIGNOSULFONATE</td>
<td>Pharos Chemical and Materials Library</td>
<td>2021-10-13 12:17:19</td>
<td>0.0000 - 1.0000</td>
<td>LT-UNK</td>
<td></td>
<td></td>
<td>Dispersant</td>
</tr>
</tbody>
</table>

**HAZARD TYPE:**

**AGENCY AND LIST TITLES:**

**WARNINGS:**

**END:** TEDX - Potential Endocrine Disruptors
Potential Endocrine Disruptor

**REP:** EU - SVHC Authorisation List
Toxic to reproduction - Candidate list

**DEV:** MAK
Pregnancy Risk Group B

**REP:** EU - Annex VI CMRs
Reproductive Toxicity - Category 1B

**MUL:** ChemSec - SIN List
CMR - Carcinogen, Mutagen &/or Reproductive Toxicant

**REP:** EU - SVHC Authorisation List
Toxic to reproduction - Prioritized for listing

**END:** EU - Priority Endocrine Disruptors
Category 1 - In vivo evidence of Endocrine Disruption Activity

**REP:** EU - GHS (H-Statements)
H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B]

**REP:** GHS - Japan
H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]

**REP:** GHS - Australia
H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B]

**SUBSTANCE NOTES:**

GLUCOSE: The GreenScreen® Benchmark assessment score of BM-3 was provided through the HPD 2.2 Builder Tool.

AMMONIUM Sulfate: No warnings found on HPD Priority Hazard Lists

CALCIUM LIGNOSULFONATE: No warnings found on HPD Priority Hazard Lists
<table>
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<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>
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</thead>
<tbody>
<tr>
<td>WATER</td>
<td>ID: 7732-18-5</td>
<td>Pharos Chemical and Materials Library</td>
<td>2021-10-13 12:17:20</td>
<td>0.0000 - 1.0400</td>
<td>BM-4</td>
<td>None</td>
<td>No</td>
<td>Solvent</td>
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<tr>
<td>VERMICULITE</td>
<td>ID: 1318-00-9</td>
<td>Pharos Chemical and Materials Library</td>
<td>2021-10-13 12:17:23</td>
<td>0.0000 - 3.0000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Flame retardant</td>
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<tr>
<td>UNDISCLOSED CHEMICAL</td>
<td>ID: Undisclosed</td>
<td>Pharos Chemical and Materials Library</td>
<td>2021-10-13 12:17:24</td>
<td>0.0000 - 0.5000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Surface modifier</td>
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<tr>
<td>UNDISCLOSED CHEMICAL</td>
<td>ID: Undisclosed</td>
<td>Pharos Chemical and Materials Library</td>
<td>2021-10-13 12:17:24</td>
<td>0.0000 - 5.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Binder</td>
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<tr>
<td>QUARTZ</td>
<td>ID: 14808-60-7</td>
<td>Pharos Chemical and Materials Library</td>
<td>2021-10-13 12:17:20</td>
<td></td>
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**SUBSTANCE NOTES:**
- The GreenScreen® Benchmark assessment score of BM-4 was provided through the HPD 2.2 Builder Tool.
- The HPDC Approved Preparer obtained full disclosure down to the 1,000 ppm threshold for the trade name ingredient containing this chemical. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.
- The HPDC Approved Preparer obtained full disclosure down to the 1,000 ppm threshold for the trade name ingredient containing this chemical. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.
<table>
<thead>
<tr>
<th>%</th>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>BM-1</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td></td>
<td>BM-1</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td></td>
<td>BM-1</td>
<td>US NIH - Report on Carcinogens</td>
<td>Known to be Human Carcinogen (respirable size - occupational setting)</td>
</tr>
<tr>
<td></td>
<td>BM-1</td>
<td>MAK</td>
<td>Carcinogen Group 1 - Substances that cause cancer in man</td>
</tr>
<tr>
<td></td>
<td>BM-1</td>
<td>IARC</td>
<td>Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td></td>
<td>BM-1</td>
<td>IARC</td>
<td>Group 1 - Agent is Carcinogenic to humans</td>
</tr>
<tr>
<td></td>
<td>BM-1</td>
<td>GHS - New Zealand</td>
<td>6.7A - Known or presumed human carcinogens</td>
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<tr>
<td></td>
<td>BM-1</td>
<td>GHS - Japan</td>
<td>H350 - May cause cancer [Carcinogenicity - Category 1A]</td>
</tr>
<tr>
<td></td>
<td>BM-1</td>
<td>GHS - Australia</td>
<td>H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The GreenScreen® Benchmark assessment score of BM-1 was provided through the HPD 2.2 Builder Tool.

---

<table>
<thead>
<tr>
<th>%</th>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>LT-UNK</td>
<td>None</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:**
### 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>ISSUE DATE: 2020-03-02</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES: All Facilities</td>
<td>EXPIRY DATE: 2022-02-06</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td>CERTIFIER OR LAB: UL</td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES: ToughRock® Fireguard &amp; Fireguard C Gypsum Board Certificate Number: 162848-420. Wall finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 using a Classroom Environment with an air change of 0.82 hr⁻¹ and a loading of 94.60 m²; and are determined compliant in accordance with CDPH Standard Method V1.2-2017 using an Office Environment with an air change of 0.68 hr⁻¹ and a loading of 33.40 m².</td>
<td></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

Georgia-Pacific worked with the HPDC Approved Preparer to confirm that all intentionally added ingredients, residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 ppm threshold.
## MANUFACTURER INFORMATION

<table>
<thead>
<tr>
<th>MANUFACTURER: Georgia-Pacific</th>
<th>CONTACT NAME: Barry Reid, LEED AP BD+C</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADDRESS: 133 Peachtree Street, NE Floor 8 Atlanta GA 30303, USA</td>
<td>TITLE: Business Development Marketing Manager</td>
</tr>
<tr>
<td>EMAIL: <a href="mailto:bsreid@gapac.com">bsreid@gapac.com</a></td>
<td></td>
</tr>
</tbody>
</table>

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

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

#### 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 LT1P1 score.) |
| BM-2 Benchmark 2 (use but search for safer substitutes) | |
| 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) | NoGS No GreenScreen. |

#### 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 |

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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.