

HPD UNIQUE IDENTIFIER: 1002812255232

CLASSIFICATION: 09 56 13 Gypsum-Panel Textured Ceilings

PRODUCT DESCRIPTION: This HPD covers the following ToughRock® Fire Resistant Gypsum Boards: ToughRock® Fireguard 45® Gypsum Board, ToughRock® Fireguard 45® Stretch 54® Gypsum Board, ToughRock® Fireguard X® Gypsum Board, ToughRock® Fireguard X® Stretch 54® Gypsum Board, ToughRock® Fireguard C® Gypsum Board, ToughRock® Fireguard C® Stretch 54® Gypsum Board, ToughRock® Fireguard X® Veneer Base Board, ToughRock® Fireguard C® Soffit Board, ToughRock® Shaftliner, and Toughrock® Lite-Weight Fire-Rated Gypsum Board. Made of 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 resistance is required.

**Section 1: Summary**

**Basic Method / Product Threshold**

**CONTENT INVENTORY**

|   |  |   |  |
|---|--|---|--|
| <b>Inventory Reporting Format</b>             | <b>Threshold Level</b>                     | <b>Residuals/Impurities Evaluation</b>                        | <i>For all contents above the threshold, the manufacturer has:</i>                 |
| <input type="radio"/> Nested Materials Method | <input type="radio"/> 100 ppm              | <input checked="" type="radio"/> Completed                    | <b>Characterized</b> <input checked="" type="radio"/> Yes <input type="radio"/> No |
| <input checked="" type="radio"/> Basic Method | <input checked="" type="radio"/> 1,000 ppm | <input type="radio"/> Partially Completed                     | <i>Provided weight and role.</i>   |
| <b>Threshold Disclosed Per</b>                | <input type="radio"/> Per GHS SDS          | <input type="radio"/> Not Completed                           | <b>Screened</b> <input checked="" type="radio"/> Yes <input type="radio"/> No      |
| <input type="radio"/> Material                | <input type="radio"/> Other                | <b>Explanation(s) provided :</b>                              | <i>Provided screening results using HPDC-approved methods.</i>                     |
| <input checked="" type="radio"/> Product      |  | <input checked="" type="radio"/> Yes <input type="radio"/> No | <b>Identified</b> <input type="radio"/> Yes <input checked="" type="radio"/> No    |
|   |  |   | <i>Provided name and CAS RN or other identifier.</i>                               |

**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.

**PRODUCT | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE**

**TOUGHROCK® FIRE RESISTANT GYPSUM BOARD [ CALCIUM SULFATE DIHYDRATE LT-UNK | MAM UNDISCLOSED CHEMICAL LT-UNK VERMICULITE NoGS UNDISCLOSED CHEMICAL NoGS MOISTURE BM-4 QUARTZ\* BM-1 | CAN | MAM | GEN CALCIUM LIGNOSULFONATE LT-UNK GLUCOSE BM-3 FIBERGLASS LT-UNK BORIC ACID\*\* LT-1 | END | DEV | REP | MUL | MAM | EYE | SKI FLY ASH LT-UNK UNDISCLOSED CHEMICAL LT-P1 | MUL UNDISCLOSED CHEMICAL LT-UNK POTASSIUM SULFATE LT-UNK DL-TARTARIC ACID LT-UNK UNDISCLOSED SUBSTANCE LT-P1 PENTASODIUM PENTETATE LT-1 | REP | MUL | DEV | EYE | AQU UNDISCLOSED CHEMICAL LT-P1 | MUL STARCH NoGS UNDISCLOSED CHEMICAL LT-UNK UNDISCLOSED CHEMICAL NoGS CELLULOSE PULP ]**

Number of Greenscreen BM-4/BM3 contents ... 2

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... BM-1, LT-1, LT-P1

Nanomaterial ... No

**INVENTORY AND SCREENING NOTES:**

Special Conditions applied: [BiologicalMaterial]

The information in this HPD is based on information provided by Georgia-Pacific Gypsum and its vendors as of the date of this HPD. In this regard, Georgia-Pacific and the HPDC Approved Preparer sought information from vendors regarding intentionally added ingredients, residuals and impurities, down to the 1,000 ppm threshold. However, Georgia-Pacific Gypsum makes no representations or warranties, expressed or implied, with respect to the subject matter hereof. Liability is expressly disclaimed.

**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

**CONSISTENCY WITH OTHER PROGRAMS**

No pre-checks completed or disclosed.

|   |   |   |
|---|---|---|
| Third Party Verified?<br><input type="radio"/> Yes<br><input checked="" type="radio"/> No | PREPARER: ToxServices LLC<br>VERIFIER:<br>VERIFICATION #: | SCREENING DATE: 2023-09-25<br>PUBLISHED DATE: 2023-09-25<br>EXPIRY DATE: 2026-09-25 |
|---|---|---|

## 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 2.3, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-3-standard](http://www.hpd-collaborative.org/hpd-2-3-standard)

### TOUGHROCK® FIRE RESISTANT GYPSUM BOARD

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: The information in this HPD is based on information provided by Georgia-Pacific Gypsum and its vendors as of the date of this HPD. In this regard, Georgia-Pacific and the HPDC Approved Preparer sought information from vendors regarding intentionally added ingredients, residuals and impurities, down to the 1,000 ppm threshold. However, Georgia-Pacific Gypsum makes no representations or warranties, expressed or implied, with respect to the subject matter hereof. Liability is expressly disclaimed.

OTHER PRODUCT NOTES:

#### CALCIUM SULFATE DIHYDRATE

ID: 10101-41-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2023-09-25 6:48:04

#: 80.0000 - 97.0000

GreenScreen: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Structure component

HAZARD TYPE

LIST NAME AND SOURCE

WARNINGS

MAM

GHS - Japan

H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]

ADDITIONAL LISTINGS

LIST NAME AND SOURCE

NOTIFICATION

None found

No listings found on Additional Hazard Lists

SUBSTANCE NOTES:

#### UNDISCLOSED CHEMICAL

ID: Undisclosed

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2023-09-25 6:48:05

#: 0.0000 - 5.0000

GreenScreen: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Binder

HAZARD TYPE

LIST NAME AND SOURCE

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS

LIST NAME AND SOURCE

NOTIFICATION

None found

No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

**VERMICULITE**

ID: 1318-00-9

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: 2023-09-25 6:48:05

%: 0.0000 - 3.0000      GreenScreen: **NoGS**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Flame retardant**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS                                       |
|-------------|----------------------|--|
| None found  |                      | No warnings found on HPD Priority Hazard Lists |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                 |
|---------------------|----------------------|--|
| None found          |                      | No listings found on Additional Hazard Lists |

SUBSTANCE NOTES: This substance is only present in the ToughRock® Fireguard C® Gypsum Board, ToughRock® Fireguard C® Stretch 54® Gypsum Board, and ToughRock® Fireguard C® Soffit Board products.

**UNDISCLOSED CHEMICAL**ID: **Undisclosed**HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: 2023-09-25 6:48:05

%: 0.0000 - 2.5000      GreenScreen: **NoGS**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Flame retardant**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS                                       |
|-------------|----------------------|--|
| None found  |                      | No warnings found on HPD Priority Hazard Lists |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                 |
|---------------------|----------------------|--|
| None found          |                      | No listings found on Additional Hazard Lists |

SUBSTANCE NOTES: This substance is only present in the Toughrock® Lite-Weight Fire-Rated Gypsum Board product. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

**CELLULOSE PULP**ID: **Biological Material**HAZARD DATA SOURCE: **HPDC Special Conditions Policy**%: 0.0000 - 1.8600      GreenScreen: **Not Required**      RC: **None**      NANO: **No**      MATERIAL ROLE: **Structure component**

| HAZARD TYPE  | AGENCY AND LIST TITLES | WARNINGS |
|--|------------------------|----------|
| Hazard Screening is not applicable to this Special Condition |                        |          |

BIOLOGICAL MATERIALS CATEGORY: **Tree-based materials**INGREDIENT DESCRIPTION: **Cellulose, CAS# 65996-61-4**

MATERIAL CONTENT NOTES: 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.

**MOISTURE**

ID: 7732-18-5

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2023-09-25 6:48:05**%: **0.0000 - 1.5400**GreenScreen: **BM-4**RC: **None**NANO: **No**SUBSTANCE ROLE: **Solvent**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS                                       |
|-------------|----------------------|--|
| None found  |                      | No warnings found on HPD Priority Hazard Lists |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                         | NOTIFICATION  |
|---------------------|--|---|
| EXEMPT              | European Union / European Commission (EU EC) | EU - REACH Exemptions<br>Exempted from REACH Annex IV listing due to intrinsic safety |

SUBSTANCE NOTES: The GreenScreen® Benchmark assessment score of BM-4 was provided through the HPD 2.3 Builder Tool.

**QUARTZ\***

ID: 14808-60-7

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2023-09-25 6:48:05**%: **Impurity/Residual**GreenScreen: **BM-1**RC: **None**NANO: **No**SUBSTANCE ROLE: **Impurity/Residual**

| HAZARD TYPE         | LIST NAME AND SOURCE              | WARNINGS  |
|---------------------|-----------------------------------|---|
| CAN                 | US CDC - Occupational Carcinogens | Occupational Carcinogen   |
| CAN                 | CA EPA - Prop 65                  | Carcinogen - specific to chemical form or exposure route  |
| CAN                 | US NIH - Report on Carcinogens    | Known to be Human Carcinogen (respirable size - occupational setting)   |
| CAN                 | MAK                               | Carcinogen Group 1 - Substances that cause cancer in man  |
| CAN                 | IARC                              | Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources   |
| CAN                 | IARC                              | Group 1 - Agent is Carcinogenic to humans   |
| CAN                 | US NIH - Report on Carcinogens    | Known to be a human Carcinogen  |
| CAN                 | GHS - Japan                       | H350 - May cause cancer [Carcinogenicity - Category 1A]   |
| CAN                 | GHS - Australia                   | H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]  |
| CAN                 | GHS - New Zealand                 | Carcinogenicity category 1  |
| MAM                 | GHS - Japan                       | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| GEN                 | GHS - Japan                       | H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]   |
| MAM                 | GHS - Australia                   | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]                   |
| MAM                 | GHS - New Zealand                 | Specific target organ toxicity - repeated exposure category 1   |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE              | NOTIFICATION  |
| None found          |                                   | No listings found on Additional Hazard Lists  |

**SUBSTANCE NOTES:** \*Gypsum (calcium sulfate dihydrate) contains naturally occurring crystalline silica as an impurity, generally of the quartz form. As further indicated in Section 11 of Georgia-Pacific's Paper Faced Gypsum Panels SDS (<https://sds.gp.com/>), exposure to respirable crystalline silica from occupational sources is listed by IARC and NTP as a lung carcinogen. Testing conducted by Georgia-Pacific and other gypsum wallboard manufacturers using generally accepted industrial hygiene practices with both personal and area sampling did not detect respirable crystalline silica during activities associated with normal use of this product (i.e., cutting the product by "score and snap", hand saw or rotary saw). However, good ventilation and workplace practices should be used to minimize dust, and industrial hygiene monitoring should be conducted to determine actual exposure when permissible exposure limits may be exceeded. See Section 8 of Georgia-Pacific's Paper Faced Gypsum Panels SDS for occupational exposure limits and additional information. The GreenScreen® Benchmark assessment score of BM-1 was provided through the HPD 2.3 Builder Tool.

## CALCIUM LIGNOSULFONATE

ID: 8061-52-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2023-09-25 6:48:06

#: 0.0000 - 1.0000

GreenScreen: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Dispersant

| HAZARD TYPE         | LIST NAME AND SOURCE | WARNINGS                                       |
|---------------------|----------------------|--|
| None found          |                      | No warnings found on HPD Priority Hazard Lists |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                   |
| None found          |                      | No listings found on Additional Hazard Lists   |
| SUBSTANCE NOTES:    |                      |  |

**GLUCOSE**

ID: 50-99-7

| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |  | HAZARD SCREENING DATE: <b>2023-09-25 6:48:06</b>  |                 |                                    |
|--|--|---|-----------------|------------------------------------|
| %: <b>0.0000 - 1.0000</b>  | GreenScreen: <b>BM-3</b>                     | RC: <b>None</b>   | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Accelerator</b> |
| HAZARD TYPE  | LIST NAME AND SOURCE                         | WARNINGS  |                 |                                    |
| None found   |  | No warnings found on HPD Priority Hazard Lists  |                 |                                    |
| ADDITIONAL LISTINGS  | LIST NAME AND SOURCE                         | NOTIFICATION  |                 |                                    |
| EXEMPT   | European Union / European Commission (EU EC) | EU - REACH Exemptions<br><br>Exempted from REACH Annex IV listing due to intrinsic safety |                 |                                    |

SUBSTANCE NOTES: The GreenScreen® Benchmark assessment score of BM-3 was provided through the HPD 2.3 Builder Tool.

**FIBERGLASS**

ID: 65997-17-3

| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |  | HAZARD SCREENING DATE: <b>2023-09-25 6:48:06</b>   |                 |  |
|--|--|--|-----------------|--|
| %: <b>0.0000 - 1.0000</b>  | GreenScreen: <b>LT-UNK</b>                   | RC: <b>None</b>  | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Structure component</b> |
| HAZARD TYPE  | LIST NAME AND SOURCE                         | WARNINGS   |                 |  |
| None found   |  | No warnings found on HPD Priority Hazard Lists   |                 |  |
| ADDITIONAL LISTINGS  | LIST NAME AND SOURCE                         | NOTIFICATION   |                 |  |
| EXEMPT   | European Union / European Commission (EU EC) | EU - REACH Exemptions<br><br>Exempted from REACH Annex V listing due to intrinsic safety |                 |  |

SUBSTANCE NOTES:

**BORIC ACID\*\***

ID: 10043-35-3

|  |                          |  |                 |  |
|--|--------------------------|--|-----------------|--|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          | HAZARD SCREENING DATE: <b>2023-09-25 6:48:06</b> |                 |  |
| %: <b>0.0000 - 1.0000</b>  | GreenScreen: <b>LT-1</b> | RC: <b>None</b>                                  | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Tensile strength additive</b> |

| HAZARD TYPE         | LIST NAME AND SOURCE                                     | WARNINGS   |
|---------------------|--|--|
| END                 | TEDX - Potential Endocrine Disruptors                    | Potential Endocrine Disruptor  |
| 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   |
| END                 | EU - Priority Endocrine Disruptors                       | Category 1 - In vivo evidence of Endocrine Disruption Activity   |
| 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]   |
| REP                 | EU - GHS (H-Statements) Annex 6 Table 3-1                | H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B]   |
| MAM                 | GHS - Japan  | H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]  |
| EYE                 | GHS - New Zealand  | Eye irritation category 2  |
| MAM                 | GHS - Japan  | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]                                     |
| SKI                 | GHS - Japan  | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]   |
| REP                 | GHS - New Zealand  | Reproductive toxicity category 2   |
| REP                 | EU - SVHC List   | Toxic to reproduction - Candidate list   |
| REP                 | EU - SVHC List   | Toxic to reproduction - Prioritized for listing  |
| REP                 | EU - REACH Annex XVII CMRs                               | Reproductive toxicants: Category 1B  |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION   |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Biological and Environmentally Released Materials |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Cosmetics & Personal Care Products                |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                    | GSPI - Six Classes Precautionary List<br><br>Antimicrobials  |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Formulated Consumer Products                      |

SUBSTANCE NOTES: \*\*As indicated by Section 3 of Georgia-Pacific's Paper Faced Gypsum Panels SDS (<https://sds.gp.com/>), testing conducted by Georgia-Pacific did not detect boric acid during activities associated with the normal use of this product; however, jobsite air monitoring should be conducted to determine actual exposure when permissible exposure limits may be exceeded.

**FLY ASH**

ID: **68131-74-8**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-09-25 6:48:06**

%: **Impurity/Residual** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

HAZARD TYPE LIST NAME AND SOURCE WARNINGS

None found No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION

None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES:

**UNDISCLOSED CHEMICAL**

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-09-25 6:48:07**

%: **0.0000 - 0.7500** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Adhesive**

HAZARD TYPE LIST NAME AND SOURCE WARNINGS

MUL German FEA - Substances Hazardous to Waters Class 2 - Hazard to Waters

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION

RESTRICTED LIST Green Science Policy Institute (GSPI) GSPI - Six Classes Precautionary List  
Some Solvents

SUBSTANCE NOTES: 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 DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-09-25 6:48:07**

%: **0.0000 - 0.5000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surface modifier**

HAZARD TYPE LIST NAME AND SOURCE WARNINGS

None found No warnings found on HPD Priority Hazard Lists



| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                 |
|---------------------|----------------------|--|
| None found          |                      | No listings found on Additional Hazard Lists |

SUBSTANCE NOTES: Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

**POTASSIUM SULFATE**

ID: 7778-80-5

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-09-25 6:48:07**

%: **0.0000 - 0.5000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Accelerator**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS                                       |
|-------------|----------------------|--|
| None found  |                      | No warnings found on HPD Priority Hazard Lists |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                 |
|---------------------|----------------------|--|
| None found          |                      | No listings found on Additional Hazard Lists |

SUBSTANCE NOTES:

**DL-TARTARIC ACID**

ID: 133-37-9

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-09-25 6:48:07**

%: **0.0000 - 0.5000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Tensile strength additive**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS                                       |
|-------------|----------------------|--|
| None found  |                      | No warnings found on HPD Priority Hazard Lists |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                 |
|---------------------|----------------------|--|
| None found          |                      | No listings found on Additional Hazard Lists |

SUBSTANCE NOTES:

**UNDISCLOSED SUBSTANCE**

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-09-25 6:48:07**

%: **0.0000 - 0.2000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Dispersant**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS                                       |
|-------------|----------------------|--|
| None found  |                      | No warnings found on HPD Priority Hazard Lists |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                         | NOTIFICATION   |
|---------------------|--|--|
| RESTRICTED LIST     | International Living Future Institute (ILFI) | Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective April 1, 2023<br><br>Red List substances to avoid in Living Building Challenge V4.0 projects |

SUBSTANCE NOTES: 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 DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-09-25 6:48:07**

%: **0.0000 - 0.2000** GreenScreen: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Chelating agent**

| HAZARD TYPE | LIST NAME AND SOURCE                        | WARNINGS  |
|-------------|---|---|
| REP         | EU - Annex VI CMRs                          | Reproductive Toxicity - Category 1B   |
| MUL         | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters  |
| DEV         | EU - GHS (H-Statements) Annex 6 Table 3-1   | H360D - May damage the unborn child [Reproductive toxicity - Category 1A or 1B] |
| EYE         | GHS - New Zealand                           | Eye irritation category 2   |
| AQU         | GHS - New Zealand                           | Hazardous to the aquatic environment - chronic category 2                       |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION  |
|---------------------|--|---|
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Children's Products          |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Formulated Consumer Products |

SUBSTANCE NOTES:

**UNDISCLOSED CHEMICAL**

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-09-25 6:48:08**

%: **0.0000 - 0.2000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Adhesive**

| HAZARD TYPE         | LIST NAME AND SOURCE                        | WARNINGS   |
|---------------------|---|--|
| MUL                 | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters                             |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                        | NOTIFICATION   |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)       | GSPI - Six Classes Precautionary List<br>Some Solvents |

SUBSTANCE NOTES: Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

**STARCH**

ID: 9005-25-8

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-09-25 6:48:08**

%: **0.0000 - 0.1800** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

| HAZARD TYPE         | LIST NAME AND SOURCE                         | WARNINGS  |
|---------------------|--|---|
| None found          |  | No warnings found on HPD Priority Hazard Lists  |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                         | NOTIFICATION  |
| EXEMPT              | European Union / European Commission (EU EC) | EU - REACH Exemptions<br>Exempted from REACH Annex IV listing due to intrinsic safety |

SUBSTANCE NOTES:

**UNDISCLOSED CHEMICAL**

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-09-25 6:48:08**

%: **0.0000 - 0.1500** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Blowing agent**

| HAZARD TYPE         | LIST NAME AND SOURCE | WARNINGS                                       |
|---------------------|----------------------|--|
| None found          |                      | No warnings found on HPD Priority Hazard Lists |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                   |
| None found          |                      | No listings found on Additional Hazard Lists   |

SUBSTANCE NOTES: 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**

%: **0.0000 - 0.1000**      GreenScreen: **NoGS**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Adhesive**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS                                       |
|-------------|----------------------|--|
| None found  |                      | No warnings found on HPD Priority Hazard Lists |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                 |
|---------------------|----------------------|--|
| None found          |                      | No listings found on Additional Hazard Lists |

**SUBSTANCE NOTES:** Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

### 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: 2020-03-02       | CERTIFIER OR LAB: UL |
| APPLICABLE FACILITIES: All Facilities  | EXPIRY DATE: 2024-02-06      |                      |
| CERTIFICATE URL:   |                              |                      |
| CERTIFICATION AND COMPLIANCE NOTES: ToughRock® Fireguard & 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 <sup>-1</sup> and a loading of 94.60 m <sup>2</sup> ; 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 <sup>-1</sup> and a loading of 33.40 m <sup>2</sup> . This certification covers all Georgia-Pacific products covered by this HPD except the ToughRock® Fireguard X® Veneer Base Board, which is not GreenGuard Certified. |                              |                      |

### 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

The information in this HPD is based on information provided by Georgia-Pacific Gypsum and its vendors as of the date of this HPD. In this regard, Georgia-Pacific and the HPDC Approved Preparer sought information from vendors regarding intentionally added ingredients, residuals and impurities, down to the 1,000 ppm threshold. However, Georgia-Pacific Gypsum makes no representations or warranties, expressed or implied, with respect to the subject matter hereof. Liability is expressly disclaimed.

**MANUFACTURER INFORMATION**

**MANUFACTURER:** Georgia-Pacific  
**ADDRESS:** 133 Peachtree Street, NE  
 Floor 8  
 Atlanta, GA 30303  
**COUNTRY:** USA

**WEBSITE:** <http://www.buildgp.com/georgia-pacific-gypsum>  
**CONTACT NAME:** Tish Sabaratnam  
**TITLE:** Sr. Technical Service Specialist  
**PHONE:** 470-381-4023  
**EMAIL:** rathisha.sabaratnam@gapac.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**

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

**GreenScreen (GS)**

|   |  |
|---|--|
| <b>BM-4</b> Benchmark 4 (prefer-safer chemical)                     | <b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1) |
| <b>BM-3</b> Benchmark 3 (use but still opportunity for improvement) | <b>LT-1</b> List Translator 1 (Likely Benchmark-1)             |
| <b>BM-2</b> Benchmark 2 (use but search for safer substitutes)      | <b>LT-UNK</b> List Translator Benchmark Unknown                |
| <b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)          | <b>NoGS</b> No GreenScreen.                                    |
| <b>BM-U</b> Benchmark Unspecified (due to insufficient data)        |  |

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org), and Best Practices for Hazard Screening on the HPDC website ([hpd-collaborative.org](http://hpd-collaborative.org)).

**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*

