

HPD UNIQUE IDENTIFIER: 2453629952

CLASSIFICATION: 09 29 00 Gypsum Board

PRODUCT DESCRIPTION: Gold Bond® eXP® Sheathing consists of a moisture- and mold-resistant gypsum core encased in a coated, specially designed PURPLE® fiberglass mat on the face, back and sides. It is available in a Type X core. The glass mat is folded around the long edges to reinforce and protect the core, and it provides superior weather resistance. Use eXP Sheathing for attachment to the outside of wall and soffit framing as a substrate for exterior cladding. GridMarX® are printed on the glass mat surface to help installers instantly identify stud locations and make accurate cuts without having to pencil in or snap chalk lines. This HPD covers 1/2" Gold Bond® eXP® Sheathing. National Gypsum Company is the exclusive service provider for products manufactured by Gold Bond Building Products, LLC, PermaBASE Building Products, LLC and ProForm Finishing Products, LLC.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

| Inventory Reporting Format   | Threshold Level   | Residuals/Impurities Evaluation  | For all contents above the threshold, the manufacturer has:  |
|--|---|--|--|
| <input checked="" type="radio"/> Nested Materials Method<br><input type="radio"/> Basic Method | <input checked="" type="radio"/> 100 ppm<br><input type="radio"/> 1,000 ppm<br><input type="radio"/> Per GHS SDS<br><input type="radio"/> Other | Completed in 2 of 2 Materials<br><br><b>Explanation(s) provided for Residuals/Impurities?</b><br><input checked="" type="radio"/> Yes <input type="radio"/> No | <b>Characterized</b> <input checked="" type="radio"/> Yes <input type="radio"/> No<br><i>Provided weight and role.</i><br><b>Screened</b> <input checked="" type="radio"/> Yes <input type="radio"/> No<br><i>Provided screening results using HPDC-approved methods.</i><br><b>Identified</b> <input type="radio"/> Yes <input checked="" type="radio"/> No<br><i>Provided name and CAS RN or other identifier.</i> |
| Threshold Disclosed Per  |   |  |  |
| <input type="radio"/> Material<br><input checked="" type="radio"/> Product                     |   |  |  |

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.

NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY

GREENSCREEN SCORE | HAZARD TYPE

GYPSUM CORE [ GYPSUM BM-3dg ] MAM SILOXANES AND SILICONES, DI-ME, POLYMERS WITH 3-MERCAPTOPROPYL SILSESQUIOXANES LT-UNK POTASSIUM SULFATE LT-UNK CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK SODIUM POLYNAPHTHALENESULFONATE LT-P1 PBT PORTLAND CEMENT LT-P1 CAN | END | MAM POLY(OXY-1,2-ETHANEDIYL), ALPHA-SULFO-OMEGA-HYDROXY-, C9-11-ALKYL ETHERS, SODIUM SALTS NoGS 2-PYRIDINETHIOL, 1-OXIDE, SODIUM SALT LT-P1 MUL | SKI | EYE | MAM | AQU METAPHOSPHORIC ACID (H3P3O9), TRISODIUM SALT LT-UNK STARCH LT-UNK BORIC ACID LT-1 END | DEV | REP | MUL | MAM | EYE | SKI DEXTROSE BM-3 GLASS MAT FACERS [ CALCIUM CARBONATE BM-3 ] EYE CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK UNDISCLOSED LT-UNK POLYVINYL ALCOHOL LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-P1 SKI UNDISCLOSED LT-UNK 2,4,7,9-TETRAMETHYL-5-DECYNE-4,7-DIOL LT-UNK | EYE | AQU ]

Number of Greenscreen BM-4/BM3 contents ... 3

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

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.3, and discloses hazards associated with all substances present at or above 100 parts per million (ppm) in the finished product, along with the role and percent weight.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: UL/GreenGuard Gold Certified  
 LCA: Environmental Product Declaration (EPD) by NSF  
 Evaluation Report: ICC-ES Evaluation Report (ESR-2743)

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1.

Third Party Verified?

Yes

No

PREPARER: Elixir Environmental

VERIFIER:

VERIFICATION #:

OPTIMIZATION TOKEN: 0

SCREENING DATE: 2024-09-11

PUBLISHED DATE: 2024-09-11

EXPIRY DATE: 2027-09-11

## 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)

### GYPSUM CORE

#: 93.2000 - 96.2000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier disclosures and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Percent by weight of material and substances reported as ranges to account for formulation variations between manufacturing facilities, and due to the disclosure preference of suppliers.

### GYPSUM

ID: 13397-24-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2024-09-11 10:55:29

#: 99.1000 - 99.3000

GreenScreen: BM-3dg

RC: PreC

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: GreenScreen Benchmark® assessment score of BM-3dg was provided by the HPD Builder Tool. The use of pre-consumer recycled content gypsum, or FGD gypsum, varies by manufacturing location. Please contact manufacturer if more information is required.

### SILOXANES AND SILICONES, DI-ME, POLYMERS WITH 3-MERCAPTOPROPYL SILSESQUIOXANES

ID: 108775-26-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2024-09-11 10:55:29

#: 0.1000 - 0.4000

GreenScreen: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Water resistance

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:

**POTASSIUM SULFATE**

ID: 7778-80-5

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-11 10:55:30**

#: **0.0000 - 0.3000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Water resistance**

| 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: Substance may not be used in all formulations; please contact the manufacturer if more information is required.

**CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE**

ID: 65997-17-3

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-11 10:55:29**

#: **0.0000 - 0.3000** GreenScreen: **LT-UNK** 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 V listing due to intrinsic safety |

SUBSTANCE NOTES: Substance may not be used in all formulations; please contact the manufacturer if more information is required.

**SODIUM POLYNAPHTHALENESULFONATE**

ID: 9084-06-4

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-11 10:55:30**

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

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS   |
|-------------|----------------------|--|
| PBT         | EC - CEPA DSL        | Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans |

| 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, 2024<br><br>Red List substances to avoid in Living Building Challenge V4.0 projects |

SUBSTANCE NOTES: Declare Program Exception available for this substance: RL-009b Formaldehyde. GREENGUARD Gold Certification confirms that emissions levels in the final product comply with the thresholds required by Declare 2.0. Suppliers confirm free formaldehyde present at less than 0.05% in the dispersant product, which equates to less than 1 ppm in the gypsum core. Substance may not be used in all formulations; please contact the manufacturer if more information is required.

### PORTLAND CEMENT

ID: 65997-15-1

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-11 10:55:30**

%: **0.0000 - 0.1000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Buffer**

| HAZARD TYPE | LIST NAME AND SOURCE                  | WARNINGS  |
|-------------|---------------------------------------|---|
| CAN         | MAK                                   | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification  |
| END         | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor   |
| MAM         | GHS - Japan                           | H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]   |
| MAM         | GHS - Japan                           | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |

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

SUBSTANCE NOTES: Substance may not be used in all formulations; please contact the manufacturer if more information is required.

### POLY(OXY-1,2-ETHANEDIYL), ALPHA-SULFO-OMEGA-HYDROXY-, C9-11-ALKYL ETHERS, SODIUM SALTS

ID: 96130-61-9

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-11 10:55:31**

%: **0.0000 - 0.0800** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surfactant**

| 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: Substance may not be used in all formulations; please contact the manufacturer if more information is required.

**NAPHTHALENESULFONIC ACID, POLYMER WITH FORMALDEHYDE, CALCIUM SALT**

ID: **37293-74-6**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-11 10:55:31**

%: **0.0000 - 0.0700 ALT** 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, 2024<br><br>Red List substances to avoid in Living Building Challenge V4.0 projects |

SUBSTANCE NOTES: Declare Program Exception available for this substance: RL-009b Formaldehyde. GREENGUARD Gold Certification confirms that emissions levels in the final product comply with the thresholds required by Declare 2.0. Suppliers confirm free formaldehyde present at less than 0.005% in the dispersant product, which equates to less than 1 ppm in the gypsum core. Substance may not be used in all formulations; please contact the manufacturer if more information is required.

ALTERNATE: This substance is an alternate substance to Sodium polynaphthalenesulfonate.

**2-PYRIDINETHIOL, 1-OXIDE, SODIUM SALT**

ID: **3811-73-2**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-11 10:55:31**

%: **0.0400 - 0.0700** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Antimicrobial Pesticide**

| HAZARD TYPE         | LIST NAME AND SOURCE                                    | WARNINGS  |
|---------------------|---|---|
| MUL                 | German FEA - Substances Hazardous to Waters             | Class 3 - Severe Hazard to Waters   |
| SKI                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]  |
| EYE                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]  |
| MAM                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]                   |
| AQU                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]                                      |
| AQU                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]   |
| MAM                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]  |
| MAM                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]  |
| MAM                 | GHS - Japan   | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| MAM                 | GHS - Australia   | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]                   |
| 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]  |
| AQU                 | GHS - Japan   | H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]   |
| AQU                 | GHS - Japan   | H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]                                      |
| MAM                 | GHS - Japan   | H331 - Toxic if inhaled [Acute toxicity (inhalation: dust, mist) - Category 3]  |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION  |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br><br>Antimicrobials   |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Cosmetics & Personal Care Products                   |

SUBSTANCE NOTES:

**METAPHOSPHORIC ACID (H3P3O9), TRISODIUM SALT**

ID: 7785-84-4

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2024-09-11 10:55:31**%: **0.0000 - 0.0600**      GreenScreen: **LT-UNK**      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                                 |
|---------------------|----------------------|--|
| None found          |                      | No listings found on Additional Hazard Lists |

SUBSTANCE NOTES: Substance may not be used in all formulations; please contact the manufacturer if more information is required.

**STARCH**

ID: 65996-63-6

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2024-09-11 10:55:31**%: **0.0000 - 0.0600**      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: Substance may not be used in all formulations; please contact the manufacturer if more information is required.

**BORIC ACID**

ID: 10043-35-3

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2024-09-11 10:55:31**%: **0.0000 - 0.0500**      GreenScreen: **LT-1**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Buffer**

| 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: Substance may not be used in all formulations; please contact the manufacturer if more information is required.

| 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     | 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 v4.0 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 v4.0 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 v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Formulated Consumer Products                      |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022<br><br>Cosmetics & Personal Care Products                |

SUBSTANCE NOTES: Substance may not be used in all formulations; please contact the manufacturer if more information is required.

## DEXTROSE

ID: 50-99-7

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-11 10:55:32**

#: **0.0000 - 0.0300** GreenScreen: **BM-3** RC: **None** NANO: **No** SUBSTANCE ROLE: **Processing regulator**

| 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: GreenScreen Benchmark® assessment score of BM-3 was provided by the HPD Builder Tool. Substance may not be used in all formulations; please contact the manufacturer if more information is required.

## GLASS MAT FACERS

#: **3.8000 - 6.8000**

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier disclosures and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Percent by weight of material and substances reported as ranges to account for formulation variations between manufacturing facilities, and due to the disclosure preference of suppliers.

## CALCIUM CARBONATE

ID: 471-34-1

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-11 10:55:32**

#: **39.0000 - 44.5000** GreenScreen: **BM-3** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS                  |
|-------------|----------------------|---------------------------|
| EYE         | GHS - New Zealand    | Eye irritation category 2 |

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

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

## CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

ID: 65997-17-3

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-11 10:55:32**

%: **31.0000 - 42.0000** GreenScreen: **LT-UNK** 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 V listing due to intrinsic safety |
|--------|--|--|

SUBSTANCE NOTES:

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-11 10:55:32**

%: **0.0000 - 14.0000** 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: Supplier has shared substance identity under the terms of a non-disclosure agreement with third-party preparer; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Substance may not be used in all formulations; please contact the manufacturer if more information is required.

**POLYVINYL ALCOHOL**

ID: **9002-89-5**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-11 10:55:33**

%: **0.0000 - 12.0000** 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: Substance may not be used in all formulations; please contact the manufacturer if more information is required.

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

HAZARD SCREENING DATE: **2024-09-11 10:55:32**

%: **0.0000 - 12.0000**      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: Supplier has shared substance identity under the terms of a non-disclosure agreement with third-party preparer; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Substance may not be used in all formulations; please contact the manufacturer if more information is required.

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

HAZARD SCREENING DATE: **2024-09-11 10:55:33**

%: **2.0000 - 4.0000**      GreenScreen: **NoGS**      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: Supplier has shared substance identity under the terms of a non-disclosure agreement with third-party preparer; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

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

HAZARD SCREENING DATE: **2024-09-11 10:55:33**

%: **0.0000 - 0.5000**      GreenScreen: **LT-P1**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Binder**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS                      |
|-------------|----------------------|-------------------------------|
| SKI         | GHS - New Zealand    | Skin sensitisation category 1 |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                         | NOTIFICATION   |
|---------------------|--|--|
| RESTRICTED LIST     | Perkins+Will (P+W)                           | P&W - Precautionary List<br><br>Precautionary list of substances recommended for avoidance   |
| RESTRICTED LIST     | International Living Future Institute (ILFI) | Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective April 1, 2024<br><br>Red List substances to avoid in Living Building Challenge V4.0 projects |

SUBSTANCE NOTES: Supplier has shared substance identity under the terms of a non-disclosure agreement with third-party preparer; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Substance may not be used in all formulations; please contact the manufacturer if more information is required.

### UNDISCLOSED

ID: **Undisclosed**

| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            | HAZARD SCREENING DATE: <b>2024-09-11 10:55:32</b> |                 |                               |
|--|----------------------------|---|-----------------|-------------------------------|
| %: <b>0.0000 - 0.4000</b>  | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b>                                   | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Binder</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                                      |                 |                               |
| None found   |                            | No listings found on Additional Hazard Lists      |                 |                               |

SUBSTANCE NOTES: Supplier has shared substance identity under the terms of a non-disclosure agreement with third-party preparer; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Substance may not be used in all formulations; please contact the manufacturer if more information is required.

### 2,4,7,9-TETRAMETHYL-5-DECYNE-4,7-DIOL

ID: **126-86-3**

| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            | HAZARD SCREENING DATE: <b>2024-09-11 10:55:33</b>         |                 |                                   |
|--|----------------------------|---|-----------------|-----------------------------------|
| %: <b>0.0000 - 0.3000</b>  | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b>   | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Surfactant</b> |
| HAZARD TYPE  | LIST NAME AND SOURCE       | WARNINGS  |                 |                                   |
| EYE  | GHS - New Zealand          | Eye irritation category 2                                 |                 |                                   |
| AQU  | GHS - New Zealand          | Hazardous to the aquatic environment - chronic category 3 |                 |                                   |
| ADDITIONAL LISTINGS  | LIST NAME AND SOURCE       | NOTIFICATION  |                 |                                   |
| None found   |                            | No listings found on Additional Hazard Lists              |                 |                                   |

SUBSTANCE NOTES: Substance may not be used in all formulations; please contact the manufacturer if more information is required.

## 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  
APPLICABLE FACILITIES: Apollo Beach, FL; Medicine Lodge, KS; Phoenix, AZ; Shippingport, PA; Waukegan, IL; Wilmington, NC  
CERTIFICATE URL: <https://tinyurl.com/23uehhxv>

ISSUE DATE: 2024-06-24 00:00:00  
EXPIRY DATE: 2025-09-30 00:00:00

CERTIFIER OR LAB: UL Environment

CERTIFICATION AND COMPLIANCE NOTES: Certification Number: 240948-420. UL 2818 - 2022 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Building products and interior finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 using an Office Environment. Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2.

### LCA

### Environmental Product Declaration (EPD) by NSF

CERTIFYING PARTY: Third Party  
APPLICABLE FACILITIES: Apollo Beach, FL; Medicine Lodge, KS; Phoenix, AZ; Shippingport, PA; Waukegan, IL; Wilmington, NC  
CERTIFICATE URL: <https://tinyurl.com/3bf8fyn8>

ISSUE DATE: 2022-10-21 00:00:00  
EXPIRY DATE: 2027-10-21 00:00:00

CERTIFIER OR LAB: NSF International

CERTIFICATION AND COMPLIANCE NOTES: Declaration number: EPD10793. Reference PCR: NSF PCR for Gypsum Panel Products (Version 1.1, 2020). Declared unit: 92.9 m<sup>2</sup> (1,000 square feet) of Gold Bond® eXP® Sheathing 1/2 inch and Gold Bond® eXP® Fire-Shield® Sheathing 5/8 inch. Scope: Cradle-to-Gate.

### EVALUATION REPORT

### ICC-ES Evaluation Report (ESR-2743)

CERTIFYING PARTY: Third Party  
APPLICABLE FACILITIES: Apollo Beach, FL; Medicine Lodge, KS; Phoenix, AZ; Shippingport, PA; Waukegan, IL; Wilmington, NC  
CERTIFICATE URL: <https://tinyurl.com/dwnjfkyy>

ISSUE DATE: 2024-06-01 00:00:00  
EXPIRY DATE: 2025-06-01 00:00:00

CERTIFIER OR LAB: ICC Evaluation Service

CERTIFICATION AND COMPLIANCE NOTES: ESR-2743. Evaluation Subject: Gold Bond eXP 1/2-inch and 5/8-inch Type X Gypsum Sheathing. Evaluation Scope: Compliance with the following codes: 2018, 2015, 2012 and 2009 International Building Code® (IBC); 2018, 2015, 2012 and 2009 International Residential Code® (IRC). Properties Evaluated: Structural; Noncombustibility; Surface-burning characteristics; Fire-resistance-rated construction; Physical properties.

## 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.

### FASTENERS

MANUFACTURER (OR GENERIC): **Generic**

HPD URL: No HPD available

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: As referenced in ICC Evaluation Report (ESR-2743).

### STEEL FRAMING

MANUFACTURER (OR GENERIC): **Generic**

HPD URL: No HPD available

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Component of Steel Stud Curtain Wall, as referenced in ICC Evaluation Report (ESR-2743).

## Section 5: General Notes

Residuals and Impurities have been considered as stated in the Material Notes for each disclosed material.

**MANUFACTURER INFORMATION**

MANUFACTURER: **Gold Bond Building Products, LLC provided by National Gypsum Company**  
 ADDRESS: **2001 Rexford Road**  
**Charlotte, NC 28211**  
 COUNTRY: **USA**

WEBSITE: **https://www.goldbondbuilding.com**  
 CONTACT NAME: **Amy Hockett**  
 TITLE: **Manager - Architectural Services & Sustainability**  
 PHONE: **704-365-7931**  
 EMAIL: **AmyH@NationalGypsum.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 HPD and*

