

HPD UNIQUE IDENTIFIER: 26232

CLASSIFICATION: 09 29 00 Gypsum Board

PRODUCT DESCRIPTION: Gold Bond® Fire-Shield C™ 5/8" Gypsum Board consists of a specially formulated fire-resistant Type X core to achieve superior performance when used in specific fire-rated Type C assemblies and has a heavy, natural finish and 100-percent recycled paper on the face and back sides. The face paper folds around the long edges to reinforce and protect the core, and the ends are cut square and finished smooth. Use it for interior, fire-rated wall and ceiling applications. For speed of installation, GridMarX® guide marks are printed on the paper surface. This HPD covers Gold Bond® Fire-Shield C™ 5/8" Gypsum Board and Gold Bond® Kal-Kore® Fire-Shield C™ 5/8" Plaster Base. 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 / Material Threshold

CONTENT INVENTORY

| | | | |
|---|---|---|---|
| Inventory Reporting Format | Threshold Level | Residuals/Impurities | All Substances Above the Threshold Indicated Are: |
| <div><input checked="" type="radio"/> Nested Materials Method</div> <div><input type="radio"/> Basic Method</div> | <div><input type="radio"/> 100 ppm</div> <div><input checked="" type="radio"/> 1,000 ppm</div> <div><input type="radio"/> Per GHS SDS</div> <div><input type="radio"/> Other</div> <div><input type="radio"/> Other</div> | <div>Considered in 2 of 2 Materials</div> <div>Explanation(s) provided for Residuals/Impurities?</div> <div><input checked="" type="radio"/> Yes <input type="radio"/> No</div> | <div>Characterized<div><input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No</div></div> <div>% weight and role provided for all substances except SC substances characterized according to SC guidance.</div> <div>Screened<div><input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No</div></div> <div>All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.</div> <div>Identified<div><input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No</div></div> <div>All substances disclosed by Name (Specific or Generic) and Identifier except SC substances identified according to SC guidance.</div> |

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

GYPSUM CORE [GYPSUM BM-3dg VERMICULITE NoGS GLASS / MINERAL FIBER LT-UNK STARCH LT-UNK DEXTROSE BM-3 SODIUM POLYNAPHTHALENESULFONATE LT-P1 | PBT POLIGNATE SODIUM LT-UNK] PAPER FACING [SC:RECYCLED PAPER Not Screened STARCH LT-UNK 2,5-FURANDIONE, DIHYDRO-, MONO-C15-20-ALKENYL DERIVS. LT-UNK]

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.2, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight for each substance.

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

Pre-checked for LEED v4 Material Ingredients Option 1

| | | |
|---|--------------------------------|----------------------------|
| Third Party Verified? | PREPARER: Elixir Environmental | SCREENING DATE: 2021-10-13 |
| <div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div> | VERIFIER: | PUBLISHED DATE: 2021-10-13 |
| | VERIFICATION #: | EXPIRY DATE: 2024-10-13 |

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

GYPSUM CORE

?: 95.7000 - 96.7000

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were “Considered”, as outlined in Emerging Best Practices. 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 possible formulation variations between manufacturing facilities.

GYPSUM

ID: 13397-24-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2021-10-13 10:26:02

?: 92.3000 - 95.3000

GS: BM-3dg

RC: PreC

NANO: No

SUBSTANCE ROLE: Structure component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: GreenScreen Benchmark® assessment score of BM-3dg was provided by the HPD Builder Tool. This product is manufactured at Apollo Beach, FL; Baltimore, MD; Fort Dodge, IA; Long Beach, CA; Medicine Lodge, KS; Mt. Holly, NC; National City, MI; Phoenix, AZ; Portsmouth, NH; Richmond, CA; Rotan, TX; Savannah, GA; Shippingport, PA; Shoals, IN; Westwego, LA. The use of pre-consumer recycled content gypsum, or FGD gypsum, varies by manufacturing location. Please contact manufacturer if more information is required.

VERMICULITE

ID: 1318-00-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2021-10-13 10:26:03

?: 4.2000 - 5.3000

GS: NoGS

RC: None

NANO: No

SUBSTANCE ROLE: Flame retardant

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Supplier confirms no asbestos detected (EPA method EPA/600/R-93/116).

GLASS / MINERAL FIBER

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2021-10-13 10:26:03

?: 0.4000 - 0.6000

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Structure component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

| | | | | | |
|---|------------------------|-------------------|---|-----------------|-------------------------------|
| STARCH | | | ID: 65996-63-6 | | |
| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | | | HAZARD SCREENING DATE: 2021-10-13 10:26:05 | | |
| %: 0.1000 - 0.6000 | | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARNINGS | | |
| None found | | | No warnings found on HPD Priority Hazard Lists | | |
| SUBSTANCE NOTES: | | | | | |

| | | | | | |
|---|------------------------|----------|--|----------|---------------------------|
| DEXTROSE | | | ID: 50-99-7 | | |
| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | | | HAZARD SCREENING DATE: 2021-10-13 10:26:05 | | |
| %: 0.0200 - 0.2000 | | GS: BM-3 | RC: None | NANO: No | SUBSTANCE ROLE: Humectant |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARNINGS | | |
| None found | | | No warnings found on HPD Priority Hazard Lists | | |
| SUBSTANCE NOTES: Synonym: D-Glucose. Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). GreenScreen Benchmark® assessment score of BM-3 was provided by the HPD Builder Tool. | | | | | |

| | | | | |
|--|------------------------|--|--|----------------------------|
| SODIUM POLYNAPHTHALENESULFONATE | | | | ID: 9084-06-4 |
| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | | HAZARD SCREENING DATE: 2021-10-13 10:26:06 | | |
| %: 0.0000 - 0.2000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE: Dispersant |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARNINGS | |
| PBT | EC - CEPA DSL | | Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans | |
| SUBSTANCE NOTES: Substance not used at all manufacturing facilities. Contact manufacturer if more information is required. | | | | |

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|---|--|--|--|--|----------|
| POLIGNATE SODIUM | | | | ID: 8061-51-6 | |
| HAZARD SCREENING METHOD: | | Pharos Chemical and Materials Library | | HAZARD SCREENING DATE: 2021-10-13 10:26:06 | |
| %: 0.0000 - 0.2000 | | GS: LT-UNK | | RC: None | NANO: No |
| SUBSTANCE ROLE: Dispersant | | | | | |
| HAZARD TYPE | | AGENCY AND LIST TITLES | | WARNINGS | |
| None found | | No warnings found on HPD Priority Hazard Lists | | | |
| SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Substance not used at all manufacturing facilities. Contact manufacturer if more information is required. | | | | | |

| | | | |
|--|--|--------------------|-----------------------------------|
| PAPER FACING | | %: 3.3000 - 4.3000 | |
| MATERIAL THRESHOLD: 1000 ppm | RESIDUALS AND IMPURITIES CONSIDERED: Yes | | MATERIAL TYPE: Paper or Cardboard |
| 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 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 possible formulation variations between manufacturing facilities.

SC:RECYCLED PAPER

ID: SC:Bio

| | | | | |
|--|------------------|-------------------------------------|----------|-------------------------------------|
| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | | HAZARD SCREENING DATE: Not Screened | | |
| %: 98.7000 - 99.3000 | GS: Not Screened | RC: PostC | NANO: No | SUBSTANCE ROLE: Structure component |

| | | |
|--------------------------------|------------------------|----------|
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| Hazard Screening not performed | | |

SUBSTANCE NOTES:
Version: SCBioMats/2018-02-23
Category: Tree-based materials
Identifier: 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. 100% of our gypsum board face and back paper is produced with post-consumer recycled content. The company’s three paper mills produce paper from discarded cardboard and magazines.

STARCH

ID: 9005-25-8

| | | | | |
|--|------------|--|----------|------------------------|
| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | | HAZARD SCREENING DATE: 2021-10-13 10:26:04 | | |
| %: 0.3000 - 0.4000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Binder |

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

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern).

2,5-FURANDIONE, DIHYDRO-, MONO-C15-20-ALKENYL DERIVS.

ID: 68784-12-3

| | | | | |
|--|------------|--|----------|------------------------------|
| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | | HAZARD SCREENING DATE: 2021-10-13 10:26:04 | | |
| %: 0.2000 - 0.3000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Sizing agent |

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

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.

| VOC EMISSIONS | UL/GreenGuard Gold Certified | | |
|--|------------------------------|-------------------------|----------------------------------|
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All CERTIFICATE URL: http://certificates.ulenvironment.com/default.aspx?id=82464&t=cs | ISSUE DATE: 2016-08-18 | EXPIRY DATE: 2021-12-28 | CERTIFIER OR LAB: UL Environment |
| CERTIFICATION AND COMPLIANCE NOTES: Certificate Number 82464-420. UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. 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 Wall finishes are determined compliant in accordance with California Department of Public Health (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. | | | |

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.

| | |
|---|---------------------------|
| PAPER JOINT TAPE | HPD URL: No HPD available |
| CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Finish gypsum board with either paper tape and ready mix joint compound; or fiberglass mesh or paper tape and setting compound. | |
| FIBERGLASS MESH | HPD URL: No HPD available |
| CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Finish gypsum board with either paper tape and ready mix joint compound; or fiberglass mesh or paper tape and setting compound. | |
| READY MIX JOINT COMPOUND | HPD URL: No HPD available |
| CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Finish gypsum board with either paper tape and ready mix joint compound; or fiberglass mesh or paper tape and setting compound. | |
| SETTING TYPE JOINT COMPOUND | HPD URL: No HPD available |
| CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Finish gypsum board with either paper tape and ready mix joint compound; or fiberglass mesh or paper tape and setting compound. | |

Section 5: General Notes

MANUFACTURER INFORMATION

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

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

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 LTP1 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 |

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.