Gold Bond® Hi-Impact® XP® Gypsum Board
by National Gypsum Company

CLASSIFICATION: 09 29 00.00 Finishes: Gypsum Board

PRODUCT DESCRIPTION: Gold Bond® BRAND Hi-Impact® XP® Gypsum Board consists of a mold-, mildew-, moisture- and fire-resistant Type X gypsum core with a specially designed PURPLE® paper. The PURPLE face paper is a heavy paper that is 100-percent recycled and offers superior abrasion, mold, mildew and moisture resistance. The 100-percent recycled gray back paper is also mold, mildew and moisture resistant. Additionally, it has a fiberglass mesh embedded into the core, providing more impact and penetration resistance. The tapered edges allow joints to be reinforced with ProForm® BRAND Joint Tape and concealed with ProForm® BRAND Ready Mix or ProForm® BRAND Quick Set(TM) Setting Compounds. This HPD covers 5/8” Gold Bond® BRAND Hi-Impact® XP® Gypsum Board.

Section 1: Summary

CONTENT INVENTORY

Inventory Reporting Format
- Nested Materials Method
- Basic Method

Threshold Disclosed Per
- Material
- Product

Threshold level
- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities
- Considered in 3 of 3 Materials
- Explanation(s) provided for Residuals/Impurities?
  - Yes
  - No

Number of Greenscreen BM-4/BM3 contents: 0
 Contents highest concern GreenScreen Benchmark or List translator Score: LT-1
 Nanomaterial: No

INVENTORY AND SCREENING NOTES:
This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1, 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. Therefore, this HPD qualifies for the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1). Substances not “Identified” are those considered proprietary to suppliers, or are those without a registered identifier.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT
VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE
VOC emissions: UL/GreenGuard Gold Certified
VOC emissions: UL/GreenGuard Certified

CONSISTENCY WITH OTHER PROGRAMS
Pre-checked for LEED v4 Material Ingredients, Option 1
<table>
<thead>
<tr>
<th>Third Party Verified?</th>
<th>PREPARER: Self-Prepared</th>
<th>VERIFIER:</th>
<th>VERIFICATION #:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SCREENING DATE: 2017-10-30  
PUBLISHED DATE: 2017-10-30  
EXPIRY DATE: 2020-10-30
This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold.
- Nested Material Inventory method with individual Material-level thresholds.

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

### HI-IMPACT XP CORE

**Material Threshold:** 1000 ppm  
**Residuals and Impurities Considered:** Yes  
**Residuals and Impurities Notes:** Residuals or impurities with the potential to be present at or above the Content Inventory Threshold indicated that return a GS score of BM-1, LT-1, LT-P1 or NoGS have been disclosed, based on information provided in supplier disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML).

**Other Material Notes:** Percent by weight of substances reported as range in order to protect the proprietary nature of this formulation.

#### Gypsum (Gypsum)

- **ID:** 13397-24-5  
- **%:** 97.2000 - 97.5000  
- **GS:** LT-UNK  
- **RC:** PreC  
- **NANO:** No  
- **Role:** Substrate

**Hazards:** None Found  
**Agency(s) with Warnings:** No warnings found on HPD Priority lists

**Substance Notes:** May also include CASRN 10101-41-4 (LT-UNK; No warnings found on HPD Priority lists). Five National Gypsum plants produce gypsum board exclusively with Pre-Consumer (Post-Industrial) byproduct gypsum [Shippingport, PA; Apollo Beach, FL; Mt. Holly, NC; Westwego, LA; Shoals, IN]. Ten National Gypsum plants produce gypsum board exclusively with natural rock gypsum [Burlington, NJ; Fort Dodge, IA; Long Beach, CA; Medicine Lodge, KS; National City, Mi; Phoenix, AZ; Portsmouth, NH; Richmond, CA; Rotan, TX; Savannah, GA]. Two National Gypsum plants produce gypsum board with a blend of Pre-Consumer (Post-Industrial) byproduct gypsum and natural rock gypsum [Baltimore, MD; Waukegan, IL].

#### Vermiculite (Vermiculite)

- **ID:** 1318-00-9  
- **%:** 0.9000 - 1.0000  
- **GS:** NoGS  
- **RC:** None  
- **NANO:** No  
- **Role:** Improves Fire Resistance

**Hazards:** None Found  
**Agency(s) with Warnings:** No warnings found on HPD Priority lists

**Substance Notes:** Supplier confirms no asbestos detected (EPA method EPA/600/R-93/116).

#### Acid Modified, Corn Starch (Acid Modified, Corn Starch)

- **ID:** 65996-63-6  
- **%:** 0.4000 - 0.5000  
- **GS:** NoGS  
- **RC:** None  
- **NANO:** No  
- **Role:** Binder

**Hazards:** None Found  
**Agency(s) with Warnings:** No warnings found on HPD Priority lists
SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS) (SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS))

ID: 65997-17-3

%: 0.3000 - 0.4000

GS: LT-UNK

RC: None

NANO: No

ROLE: Core Strength, Fire Resistance

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

EU - R- phrases

R40 - Limited Evidence of Carcinogenic Effects

CANCER

EU - GHS (H-Statements)

H351 - Suspected of causing cancer

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List.

STARCH (STARCH)

ID: 9005-25-8

%: 0.3000 - 0.4000

GS: LT-UNK

RC: None

NANO: No

ROLE: Improves Binding, Core Strength

HAZARDS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List.

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

ID: 108775-26-4

%: 0.2000 - 0.3000

GS: LT-UNK

RC: None

NANO: No

ROLE: Moisture Resistance

HAZARDS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Silicone

SODIUM POLYNAPTHALENESULFONATE (SODIUM POLYNAPTHALENESULFONATE)

ID: 9084-06-4

%: 0.0400 - 0.0600

GS: LT-P1

RC: None

NANO: No

ROLE: Dispersant; Reduces process water demand and energy consumption

HAZARDS:

PBT

EC - CEPA DSL

Persistent, Bioaccumulative and inherently Toxic (PbITh) to humans

SUBSTANCE NOTES: This substance falls below the Content Inventory Threshold indicated; however, we have included this substance in an effort to provide full transparency for this product. Efforts are being made to find a suitable replacement for this dispersant that has fewer hazards.
### QUARTZ (QUARTZ)

<table>
<thead>
<tr>
<th>%: 0.0000 - 0.1000</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>Nano: No</th>
<th>Role: Impurity/Residual</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HAZARDS:</strong></td>
<td><strong>AGENCY(IES) WITH WARNINGS:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>US NIH - Report on Carcinogens</td>
<td>Known to be Human Carcinogen (respirable size - occupational setting)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 1 - Substances that cause cancer in man</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>New Zealand - GHS</td>
<td>6.7A - Known or presumed human carcinogens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>Australia - GHS</td>
<td>H350 - May cause cancer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Quartz is one of several compounds with warnings restricted to respirable forms (Pharos CML). Exposures to respirable crystalline silica are not expected during the recommended use of this product. Awaiting full GreenScreen Assessment for form specific hazards for this compound (http://ow.ly/ZSken).

### GOLD BOND XP® PAPER FACING

<table>
<thead>
<tr>
<th>%: 3.4000 - 3.9000</th>
<th>HPD URL:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MATERIAL THRESHOLD:</strong></td>
<td>1000 ppm</td>
</tr>
<tr>
<td><strong>RESIDUALS AND IMPURITIES CONSIDERED:</strong></td>
<td>Yes</td>
</tr>
</tbody>
</table>

**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 disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML).

**OTHER MATERIAL NOTES:** Percent by weight of substances reported as range in order to protect the proprietary nature of this formulation.

### MIXED RECYCLED PAPER (MIXED RECYCLED PAPER)

<table>
<thead>
<tr>
<th>%: 98.8000 - 99.1000</th>
<th>GS: NoGS</th>
<th>RC: PostC</th>
<th>Nano: No</th>
<th>Role: Face and Back Paper; Holds Core</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HAZARDS:</strong></td>
<td><strong>AGENCY(IES) WITH WARNINGS:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** 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 (STARCH)

<table>
<thead>
<tr>
<th>%: 0.3000 - 0.4000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>Nano: No</th>
<th>Role: Binder</th>
</tr>
</thead>
</table>

Gold Bond Hi-Impact XP Gypsum Board
hpdrepository.hpd-collaborative.org
2,5-FURANDIONE, DIHYDRO-, MONO-C15-20-ALKENYL DERIVS. (2,5-FURANDIONE, DIHYDRO-, MONO-C15-20-ALKENYL DERIVS.)

ID: 68784-12-3
%: 0.2000 - 0.3000
GS: LT-UNK
RC: None
NANO: No
ROLE: Sizing Aid

None Found
No warnings found on HPD Priority lists

SUBSTANCE NOTES: Alkenyl Succinic Anhydride

FIBERGLASS SCRIM
%: 1.3000 - 1.7000

MATERIAL THRESHOLD: 100 ppm
RESIDUALS AND IMPURITIES CONSIDERED: Yes
RESIDUALS AND IMPURITIES NOTES: Supplier HPD claims Residuals Disclosure as "Measured 100 ppm".
OTHER MATERIAL NOTES: Material information based on supplier's published HPD (v1.0; 08/16/2016).

SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS) (SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS))

ID: 65997-17-3
%: 38.0000 - 45.0000
GS: LT-UNK
RC: None
NANO: No
ROLE: Core Yarn

CANCER EU - R-phrases R40 - Limited Evidence of Carcinogenic Effects
CANCER EU - GHS (H-Statements) H351 - Suspected of causing cancer

SUBSTANCE NOTES: As disclosed in supplier's published HPD.

PVC RELATED POLYMERS (PVC RELATED POLYMERS)

ID: Not registered
%: 33.0000 - 38.0000
GS: NoGS
RC: None
NANO: No
ROLE: Polymer

None Found
No warnings found on HPD Priority lists

SUBSTANCE NOTES: As disclosed in supplier's published HPD.
### DISONONYL PHTHALATE (DINP-1, MIXTURE OF ISOMERS AS MANUFACTURED)

**ID:** 68515-48-0  
**%:** 18.0000 - 21.0000  
**GS:** LT-1  
**RC:** None  
**NANO:** No  
**ROLE:** Plasticizer

**HAZARDS:**  
**CANCER**  
CA EPA - Prop 65  
Carcinogen

**DEVELOPMENTAL**  
US NIH - Reproductive & Developmental Monographs  
Some Evidence of Adverse Effects - Developmental Toxicity

**RESTRICTED LIST**  
US EPA - PPT Chemical Action Plans  
EPA Chemical of Concern - Action Plan published

**ENDOCRINE**  
ChemSec - SIN List  
Endocrine Disruption

**ENDOCRINE**  
TEDX - Potential Endocrine Disruptors  
Potential Endocrine Disruptor

**REPRODUCTIVE**  
US EPA - PPT Chemical Action Plans  
Reproductive effects

**SUBSTANCE NOTES:** As disclosed in supplier's published HPD.

### BARIUM ZINC COMPLEX (BARIUM ZINC COMPLEX)

**ID:** Not registered  
**%:** 1.0000 - 2.0000  
**GS:** NoGS  
**RC:** None  
**NANO:** No  
**ROLE:** Heat Stabilizer

**HAZARDS:**  
None Found  
No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** As disclosed in supplier's published HPD.

### UNDISCLOSED

**ID:** Unknown  
**%:** 1.0000 - 1.5000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Processing Aid

**HAZARDS:**  
**CANCER**  
MAK  
Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

**SUBSTANCE NOTES:** As disclosed in supplier's published HPD.

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**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
### 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.

**PROFORM® PAPER JOINT TAPE**

**HPD URL:**

http://designcenter.nationalgypsum.com/sustainability/

**CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:**

Finish gypsum board with either paper tape, such as ProForm® Paper Joint Tape, and ready mix joint compound; or fiberglass mesh or paper tape and setting compound.

**PROFORM® READY MIX JOINT COMPOUNDS (VOC <2 G/L)**

**HPD URL:**

http://designcenter.nationalgypsum.com/sustainability/

**CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:**

Finish gypsum board with either paper tape and ready mix joint compound, such as ProForm® Ready Mix Joint Compound; or fiberglass mesh or paper tape and setting compound.

**PROFORM® SETTING TYPE JOINT COMPOUNDS**

**HPD URL:**

http://designcenter.nationalgypsum.com/sustainability/

**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, such as ProForm® Setting Type Joint Compounds.
MANUFACTURER INFORMATION

MANUFACTURER: National Gypsum Company
ADDRESS: 2001 Rexford Road
Charlotte NC 28211, USA
WEBSITE: www.nationalgypsum.com

CONTACT NAME: Warren Barber
TITLE: Manager - Technical Marketing
PHONE: 704-365-7494
EMAIL: WarrenB@nationalgypsum.com

KEY

OSHA MSDS  Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS  Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
MAM Mammalian/systemic/organ toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
LAN Land Toxicity
NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement)
BM-2 Benchmark 2 (use but search for safer substitutes)
BM-1 Benchmark 1 (avoid - chemical of high concern)
BM-U Benchmark Unspec ed (insufficient data to benchmark)

LT-P1 List Translator Possible Benchmark 1
LT-1 List Translator Likely Benchmark 1
LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
NoGS Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms

Inventory Methods:

Nested Method / Material Threshold  Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold  Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold  Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
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.