

CLASSIFICATION: 09 29 00.00 Finishes: Gypsum Board

created via: HPDC Online Builder

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 **Nested Method / Material Threshold**

CONTENT INVENTORY

<p>Inventory Reporting Format</p> <p><input checked="" type="radio"/> Nested Materials Method</p> <p><input type="radio"/> Basic Method</p> <p>Threshold Disclosed Per</p> <p><input checked="" type="radio"/> Material</p> <p><input type="radio"/> Product</p>	<p>Threshold level</p> <p><input checked="" type="radio"/> 100 ppm</p> <p><input checked="" type="radio"/> 1,000 ppm</p> <p><input type="radio"/> Per GHS SDS</p> <p><input type="radio"/> Per OSHA MSDS</p> <p><input type="radio"/> Other</p>	<p>Residuals/Impurities</p> <p>Residuals/Impurities Considered in 3 of 3 Materials</p> <p>Explanation(s) provided for Residuals/Impurities?</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>Are All Substances Above the Threshold Indicated:</i></p> <p>Characterized Percent Weight and Role Provided? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Screened Using Priority Hazard Lists with Results Disclosed? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Identified Name and Identifier Provided? <input type="radio"/> Yes <input checked="" type="radio"/> No</p>
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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

HI-IMPACT XP CORE [GYPSUM (GYPSUM) **LT-UNK** VERMICULITE (VERMICULITE) **NoGS** ACID MODIFIED, CORN STARCH (ACID MODIFIED, CORN STARCH) **NoGS** SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS) (SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS)) **LT-UNK** | CAN STARCH (STARCH) **LT-UNK** SILOXANES AND SILICONES, DI-ME, POLYMERS WITH 3-MERCAPTOPROPYL SILSESQUIOXANES (SILOXANES AND SILICONES, DI-ME, POLYMERS WITH 3-MERCAPTOPROPYL SILSESQUIOXANES) **LT-UNK** SODIUM POLYNAPHTHALENESULFONATE (SODIUM POLYNAPHTHALENESULFONATE) **LT-P1** | PBT QUARTZ (QUARTZ) **LT-1** | CAN] GOLD BOND XP® PAPER FACING [MIXED RECYCLED PAPER (MIXED RECYCLED PAPER) **NoGS** STARCH (STARCH) **LT-UNK** 2,5-FURANDIONE, DIHYDRO-, MONO-C15-20-ALKENYL DERIVS. (2,5-FURANDIONE, DIHYDRO-, MONO-C15-20-ALKENYL DERIVS.) **LT-UNK**] FIBERGLASS SCRIM [SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS) (SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS)) **LT-UNK** | CAN PVC RELATED POLYMERS (PVC RELATED POLYMERS) **NoGS** DIISONONYL PHTHALATE (DINP-1, MIXTURE OF ISOMERS AS MANUFACTURED) (DIISONONYL PHTHALATE (DINP-1, MIXTURE OF ISOMERS AS MANUFACTURED)) **LT-1** | CAN | DEL | MUL | END | REP BARIUM ZINC COMPLEX (BARIUM ZINC COMPLEX) **NoGS** UNDISCLOSED **LT-UNK** | CAN]

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 *See Section 3 for additional listings.*

VOC emissions: UL/GreenGuard Gold Certified
VOC emissions: UL/GreenGuard Certified

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

PREPARER: Self-Prepared

SCREENING DATE: 2017-10-30

Yes

VERIFIER:

PUBLISHED DATE: 2017-10-30

No

VERIFICATION #:

EXPIRY DATE: 2020-10-30

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 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

HI-IMPACT XP CORE

%: 94.5000 - 95.2000

HPD URL:

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:

AGENCY(IES) WITH WARNINGS:

None Found

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:

AGENCY(IES) WITH WARNINGS:

None Found

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:

AGENCY(IES) WITH WARNINGS:

None Found

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: AGENCY(IES) WITH WARNINGS:

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: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Silicone

SODIUM POLYNAPHTHALENESULFONATE (SODIUM POLYNAPHTHALENESULFONATE)

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: AGENCY(IES) WITH WARNINGS:

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)

ID: 14808-60-7

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

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/Z5ken>).

GOLD BOND XP® PAPER FACING

HPD URL: %: 3.4000 - 3.9000

HPD URL:

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

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)

ID: Not registered

GS: NoGS	RC: PostC	NANO: No	ROLE: Face and Back Paper; Holds Core
HAZARDS:	AGENCY(IES) WITH WARNINGS:		
None Found	No warnings found on HPD Priority lists		

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)

ID: 9005-25-8

GS: LT-UNK	RC: None	NANO: No	ROLE: Binder
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

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

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

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Alkenyl Succinic Anhydride

FIBERGLASS SCRIM

#: 1.3000 - 1.7000

HPD URL: <https://builder.hpd-collaborative.org/uploads/files/hpds/1037/4436-20160816104528.pdf>

MATERIAL THRESHOLD:

RESIDUALS AND IMPURITIES CONSIDERED: Yes

100 ppm

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

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: 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

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

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

**DIISONONYL PHTHALATE (DINP-1, MIXTURE OF ISOMERS AS MANUFACTURED)
(DIISONONYL 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:	AGENCY(IES) WITH WARNINGS:	
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:	AGENCY(IES) WITH WARNINGS:
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:	AGENCY(IES) WITH WARNINGS:	
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

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

 **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: 2008-12-31 EXPIRY DATE: 2017-12-31 CERTIFIER OR LAB: UL
APPLICABLE FACILITIES: All Environment
CERTIFICATE URL:
<https://spot.ulprospector.com/documents/1436801.pdf?bs=31734&b=677343&st=1&r=na&ind=builtenvironment>
CERTIFICATION AND COMPLIANCE NOTES: Certificate Number: 5898-420. UL 2818 - 2013 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 V1.1-2017 using an Office and Classroom 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.

VOC EMISSIONS

UL/GreenGuard Certified

CERTIFYING PARTY: Third Party
ISSUE DATE: 2008-12-31 EXPIRY DATE: 2017-12-31 CERTIFIER OR LAB: UL
APPLICABLE FACILITIES: All Environment
CERTIFICATE URL:
<https://spot.ulprospector.com/documents/1436802.pdf?bs=31734&b=677343&st=1&r=na&ind=builtenvironment>

CERTIFICATION AND COMPLIANCE NOTES: Certificate Number: 5898-410. UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Building materials are determined compliant in accordance with an Office environment with an air change of 0.68 hr⁻¹ and a loading of 11.10 m². Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.

+ 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 Unspecified (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.