

CLASSIFICATION: 09 29 00

PRODUCT DESCRIPTION: Panel Rey's Fire resistant drywall Type X is a product with a fireproof core essentially made of gypsum and reinforced with the addition of high-temperature resistant fibers. This provides a higher strength and fire resistance to the drywall when it is used in previously evaluated assemblies. The drywall is covered on both sides with 100% recycled paper. The paper, on the front, covers the beveled edges to strengthen and protect the core. The ends are square cut and finished smooth. Panel Rey Fire-Resistant Drywall is offered in a wide variety of standard lengths and thickness of 1/2" and 5/8". Panel Rey products do not contain asbestos. Fire resistant drywall is designed to be used exclusively in interiors. Avoid exposure to temperatures higher than 125° F/ 52° C, for example, close to burners, furnaces or heaters. Also, avoid exposure to excessive or continuous moisture, before, during, and after its installation, for example, close to pools, saunas or steam rooms. Eliminate moisture sources immediately. Drywall is not a structural element and must not be used as the basis of a nailing base. The gap in the ceiling frames must not exceed the recommendations specified in the ASTM C-840 standard (for 5/8" of Fire Resistant Drywall 16" o/c parallel application to the frame, and 24" perpendicularly applied).

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
 Basic Method

Threshold level

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

Residuals/Impurities

Residuals/Impurities Considered in 7 of 7 Materials

Explanation(s) provided for Residuals/Impurities?

- Yes No

All Substances Above the Threshold Indicated Are:

Characterized Yes Ex/SC Yes No

% weight and role provided for all substances.

Screened Yes Ex/SC Yes No

All substances screened using Priority Hazard Lists with results disclosed.

Identified Yes Ex/SC Yes No

All substances disclosed by Name (Specific or Generic) and Identifier.

Threshold Disclosed Per

- Material
 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.

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

STUCCO [CALCIUM SULFATE (DIHYDRATE) LT-UNK QUARTZ LT-1 | CAN] WALLBOARD PAPER BACKING [CELLULOSE NoGS WATER BM-4 BENTONITE LT-UNK CORN STARCH LT-UNK SUCCINIC ANHYDRIDE LT-UNK | EYE CRISTOBALITE (SIO2) LT-1 | CAN] STARCH [ACID MODIFIED, CORN STARCH NoGS] DISPERSANT [WATER BM-4 NAPHTHALENESULFONIC ACID, POLYMER WITH FORMALDEHYDE, SODIUM SALT LT-P1 | PBT SULFURIC ACID DISODIUM SALT LT-UNK SULFUROUS ACID, DISODIUM SALT LT-P1] BORIC ACID [BORIC ACID LT-1 | END | REP | MUL | DEL] WET CHOP GLASS FIBERS [FIBERGLASS LT-UNK | CAN] POTASSIUM SULFATE [SULFURIC ACID DIPOTASSIUM SALT LT-UNK]

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

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 100 parts per million (ppm) in the finished the product, along with the role and percent weight. Therefore, this HPD is consistent with the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1).

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: Greenguard Other: Type III Environmental Product Declaration

CONSISTENCY WITH OTHER PROGRAMS

Third Party Verified?

- Yes
- No

PREPARER: **Self-Prepared**

VERIFIER:

VERIFICATION #:

SCREENING DATE: **2019-02-11**

PUBLISHED DATE: **2019-02-21**

EXPIRY DATE: **2022-02-11**



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

STUCCO

#: 87.5250 - 94.2880

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database: <https://toxnet.nlm.nih.gov/>.

OTHER MATERIAL NOTES: This material has a 3% post industrial recycled content.

CALCIUM SULFATE (DIHYDRATE)

ID: 10101-41-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-11

#: 87.3000 - 94.0500

GS: LT-UNK

RC: UNK

NANO: No

ROLE: Firming Agent

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Residuals and Impurities screened using the toxnet database. None noted.

QUARTZ

ID: 14808-60-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-11

#: 0.2250 - 0.2380

GS: LT-1

RC: UNK

NANO: No

ROLE: Blender

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
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	Japan - GHS	Carcinogenicity - Category 1A
CANCER	Australia - GHS	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: Residuals and Impurities screened using the toxnet database: the mineral sources of the quartz crystals employed for the preparation of the ground dust have varied with time; consequently, the associated impurities may also have varied.

WALLBOARD PAPER BACKING

%: 3.9560 - 7.3430

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database: <https://toxnet.nlm.nih.gov/>.

OTHER MATERIAL NOTES: The paper is made from 99.08% recycled content

CELLULOSE

ID: 9004-34-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-11

%: 3.7600 - 6.8600

GS: NoGS

RC: UNK

NANO: No

ROLE: Base

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: This is a biobased material with no CAS RN.
Residuals and impurities were screened using the toxnet database: <https://toxnet.nlm.nih.gov/>.

WATER

ID: 7732-18-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-11

%: 0.1600 - 0.4200

GS: BM-4

RC: UNK

NANO: No

ROLE: Hydrator

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Residuals and impurities were screened using the toxnet database: <https://toxnet.nlm.nih.gov/>.**BENTONITE**

ID: 1302-78-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-02-11**%: **0.0120 - 0.0210**GS: **LT-UNK**RC: **UNK**NANO: **No**ROLE: **Powder Suspension Agent**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Most Bentonites appear relatively pure and other mineral contributions rarely exceed 10%. Cristobalite is often present.

CORN STARCH

ID: 9005-25-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-02-11**%: **0.0120 - 0.0210**GS: **LT-UNK**RC: **UNK**NANO: **No**ROLE: **Thickening**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Residuals and impurities were screened using the toxnet database: <https://toxnet.nlm.nih.gov/>.**SUCCINIC ANHYDRIDE**

ID: 108-30-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-02-11**%: **0.0120 - 0.0210**GS: **LT-UNK**RC: **UNK**NANO: **No**ROLE: **Dehydrating Agent**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

EYE IRRITATION**EU - GHS (H-Statements)****H319 - Causes serious eye irritation**SUBSTANCE NOTES: Residuals and impurities were screened using the toxnet database: <https://toxnet.nlm.nih.gov/>.**CRISTOBALITE (SiO2)**

ID: 14464-46-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-02-11**%: **Impurity/Residual**GS: **LT-1**RC: **UNK**NANO: **No**ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	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	Japan - GHS	Carcinogenicity - Category 1A
CANCER	Australia - GHS	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: Residuals and impurities were screened using the toxnet database: <https://toxnet.nlm.nih.gov/>.

STARCH

%: 0.3500 - 0.5000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database: <https://toxnet.nlm.nih.gov/>.

OTHER MATERIAL NOTES:

ACID MODIFIED, CORN STARCH

ID: 65996-63-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-11

%: 0.3500 - 0.5000

GS: NoGS

RC: UNK

NANO: No

ROLE: Binding

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES: Residuals and impurities were screened using the toxnet database: <https://toxnet.nlm.nih.gov/>.

DISPERSANT

%: 0.2830 - 1.1500

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database: <https://toxnet.nlm.nih.gov/>.

OTHER MATERIAL NOTES:

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-02-11**

#: **0.2100 - 0.7000** GS: **BM-4** RC: **UNK** NANO: **No** ROLE: **Hydrator**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

No hazards found

SUBSTANCE NOTES: Residuals and impurities screened using the toxnet database.

NAPHTHALENESULFONIC ACID, POLYMER WITH FORMALDEHYDE, SODIUM SALT

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-02-11**

#: **0.0700 - 0.4000** GS: **LT-P1** RC: **UNK** NANO: **No** ROLE: **Polymer**

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

PBT **EC - CEPA DSL** **Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans**

SUBSTANCE NOTES: Residuals and impurities screened using the toxnet database.

SULFURIC ACID DISODIUM SALT

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-02-11**

#: **0.0030 - 0.0500** GS: **LT-UNK** RC: **UNK** NANO: **No** ROLE: **Constituent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

No hazards found

SUBSTANCE NOTES: Residuals and impurities screened using the toxnet database.

SULFUROUS ACID, DISODIUM SALT

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-02-11**

#: **Impurity/Residual** GS: **LT-P1** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

No hazards found

SUBSTANCE NOTES: Residuals and impurities screened using the toxnet database.

BORIC ACID

#: 0.1000 - 0.5000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database:
<https://toxnet.nlm.nih.gov/>.

OTHER MATERIAL NOTES: The principal impurities in technical grade boric acid are the by-product sulfate (0.1%) and various minor metallic impurities present in the borate ore /technical grade/

BORIC ACID

ID: 10043-35-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-11

#: 0.1000 - 0.5000

GS: LT-1

RC: UNK

NANO: No

ROLE: Preservative

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Prioritized for listing
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
DEVELOPMENTAL	MAK	Pregnancy Risk Group B
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B
REPRODUCTIVE	Australia - GHS	H360Fd - May damage fertility. Suspected of damaging the unborn child

SUBSTANCE NOTES: The principal impurities in technical grade boric acid are the by-product sulfate (0.1%) and various minor metallic impurities present in the borate ore /technical grade/

WET CHOP GLASS FIBERS

#: 0.0990 - 0.5000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database:
<https://toxnet.nlm.nih.gov/>.

OTHER MATERIAL NOTES:

FIBERGLASS

ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-02-11**%: **0.0990 - 0.5000**GS: **LT-UNK**RC: **UNK**NANO: **No**ROLE: **Reinforcement**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER**EU - GHS (H-Statements)****H351 - Suspected of causing cancer**SUBSTANCE NOTES: **Residuals and impurities were screened using the toxnet database: <https://toxnet.nlm.nih.gov/>.****POTASSIUM SULFATE**%: **0.0000 - 0.5000**PRODUCT THRESHOLD: **100 ppm**RESIDUALS AND IMPURITIES CONSIDERED: **Yes**RESIDUALS AND IMPURITIES NOTES: **Residuals and impurities were screened using the toxnet database: <https://toxnet.nlm.nih.gov/>.**

OTHER MATERIAL NOTES:

SULFURIC ACID DIPOTASSIUM SALT

ID: 7778-80-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-02-11**%: **0.0000 - 0.5000**GS: **LT-UNK**RC: **UNK**NANO: **No**ROLE: **Accelerator**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards foundSUBSTANCE NOTES: **Residuals and impurities were screened using the toxnet database: <https://toxnet.nlm.nih.gov/>.**

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

Greenguard

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2019-**

EXPIRY DATE: **2019-**

CERTIFIER OR LAB: **UL**

APPLICABLE FACILITIES: **Greenguard is not manufacturing location specific. All facilities are included.**

11-25

12-05

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **1/2" Certificate #: 64036-410 5/8" Certificate #: 58565-410**

OTHER

Type III Environmental Product Declaration

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2018-**

EXPIRY DATE: **2023-**

CERTIFIER OR LAB: **Labeling**

APPLICABLE FACILITIES: **Juarez, San Luis Potosi, and Monterrey (Nuevo Leon)**

12-19

12-19

Sustainability Inc

CERTIFICATE URL:

<https://www.epdregistracion.com.mx/panel-rey-s-a/>

CERTIFICATION AND COMPLIANCE NOTES: **1,000 square feet (MSF) of Gypsum Board of Varying Thicknesses Manufactured by Panel Rey S.A.**

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.

ESTANDAR READY MIX JOINT COMPOUND

HPD URL: <https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx#k=Panel%20Rey>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Material: Joint Compound Use: Interior Application: Ceiling and wall

ESTANDAR READY MIX JOINT COMPOUND

HPD URL: <https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx#k=Panel%20Rey>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Material: Joint Compound Use: Interior Application: Ceiling and wall

MAXIMO READY MIX JOINT COMPOUND

HPD URL: <https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx#k=Panel%20Rey>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Material: Joint Compound Use: Interior Application: Ceiling and wall

SUPERLIGERO READY MIX JOINT COMPOUND

HPD URL: <https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx#k=Panel%20Rey>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Material: Joint Compound Use: Interior Application: Ceiling and wall

ULTIMA LIGHT AND ULTIMA LIGHT TINTED READY MIX JOINT COMPOUND

HPD URL: <https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx#k=Panel%20Rey>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Material: Joint Compound Use: Interior Application: Ceiling and wall

ULTIMA PLUS READY MIX JOINT COMPOUND

HPD URL: <https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx#k=Panel%20Rey>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Material: Joint Compound Use: Interior Application: Ceiling and wall

UNIMAX READY MIX JOINT COMPOUND

HPD URL: <https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx#k=Panel%20Rey>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Material: Joint Compound Use: Interior Application: Ceiling and wall

MIDWEIGHT READY MIX JOINT COMPOUND

HPD URL: <https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx#k=Panel%20Rey>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Material: Joint Compound Use: Interior Application: Ceiling and wall

FINISH PRO READY MIX JOINT COMPOUND

HPD URL: <https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx#k=Panel%20Rey>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Material: Joint Compound Use: Interior Application: Ceiling and wall

EASY SET 5, 20, 45, AND 90 SETTING TYPE COMPOUNDS

HPD URL: <https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx#k=Panel%20Rey>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Material: Setting Type Compound Use: interior Application: Wall and ceiling

SPRAY TEXTURE POWDER JOINT COMPOUND

HPD URL: <https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx#k=Panel%20Rey>

Material: Compound Use: interior Application: Wall

Section 5: General Notes

Residuals and impurities were screened using the toxnet NIH database: <https://toxnet.nlm.nih.gov/>. Notes are included per line item.



MANUFACTURER INFORMATION

MANUFACTURER: **Panel Rey S.A.**
 ADDRESS: **Serafin Peña 938 Sur**
Monterrey Nuevo Leon 64000, Mexico
 WEBSITE: <http://www.panelrey.com>

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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

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
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.