Panel Rey Exterior Rey 1/2" by Panel Rey S.A.

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 09 29 00

PRODUCT DESCRIPTION: Panel Rey's Drywall for Exterior Coating is specially designed to be installed in the external part of the frame of walls or mountings, under other external application materials, such as wood, metal, brick facades, stucco, etc. The Drywall for Exterior Coating is a product with a fireproof core essentially made of gypsum and specially treated to be waterproof, and covered in both sides with 100% recycled paper. The brown paper, in the front, covers the beveled edges to strengthen and protect the core. The ends are carefully ground in a square cut. Panel Rey products do not contain asbestos. Place drywall with edges in a vertical position on the center of the mounting elements. Place drywall adjusting around all of the openings. Fix drywall with nails or screws, leaving a gap not larger than 4" along the ends and edges; at 8" in the body of the product (at 3" and 6" respectively, if staples are used). If edges are installed horizontally, these must be covered with a moisture resistant barrier or be sealed when being applied. Do not put fasteners closer than 3/8" from the ends and edges.

Section 1: Summary

Nested Method / Product Threshold

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

Residuals/Impurities Considered in 5 of 5 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

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

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] UNDISCLOSED [UNDISCLOSED NoGS UNDISCLOSED LT-UNK] STARCH [UNDISCLOSED LT-UNK 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]

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

No pre-checks completed or disclosed.

Third Party Verified?

- ○ Yes
- ◉ No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2019-02-11
PUBLISHED DATE: 2019-02-11
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

%: 86.5520 - 91.3100

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet NIH 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

%: 86.3300 - 91.0800 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

%: 0.2220 - 0.2300 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 - 6.2940

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet NIH 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 - 5.8800** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Base**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES: Residuals and impurities were screened using the toxnet NIH 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 - 0.3600** 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 NIH 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 - 0.0180** 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 - 0.0180** 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 NIH 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 - 0.0180** 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 NIH 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 NIH database: https://toxnet.nlm.nih.gov/.

UNDISCLOSED

%: 1.3800 - 5.2500

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES:

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-11**

%: **0.9000 - 3.0000** GS: **NoGS** 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 NIH database: https://toxnet.nlm.nih.gov/.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-11**

%: **0.0300 - 0.2500** GS: **LT-UNK** RC: **UNK** NANO: **No** ROLE: **Thickner**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

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

OTHER MATERIAL NOTES:

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-11**

%: **0.4500 - 2.0000** GS: **LT-UNK** RC: **UNK** NANO: **No** ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

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

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: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

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

DISPERSANT

%: 0.2830 - 0.5750

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES:

WATER

ID: 7732-18-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-11**

%: **0.2100 - 0.3500** GS: **BM-4** RC: **UNK** NANO: **No** ROLE: **Hydrator**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

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

NAPHTHALENESULFONIC ACID, POLYMER WITH FORMALDEHYDE, SODIUM SALT

ID: 9084-06-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-11**

%: **0.0700 - 0.2000** 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

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

SULFURIC ACID DISODIUM SALT

ID: 7757-82-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-11**

%: **0.0030 - 0.0250** GS: **LT-UNK** RC: **UNK** NANO: **No** ROLE: **Constituent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

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

SULFUROUS ACID, DISODIUM SALT

ID: 7757-83-7

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	

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

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
APPLICABLE FACILITIES: Greenguard is not a location specific certification. All facilities are included.
CERTIFICATE URL:

ISSUE DATE: 2014-11-25

EXPIRY DATE: 2019-11-25

CERTIFIER OR LAB: UL

CERTIFICATION AND COMPLIANCE NOTES: Certificate #" 58569-410

OTHER — **Type III Environmental Product Declaration**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Juarez, San Luis Potosi, and Monterrey (Nuevo Leon)
CERTIFICATE URL:
https://www.epdregistracion.com.mx/panel-rey-s-a/

ISSUE DATE: 2018-12-19

EXPIRY DATE: 2023-12-19

CERTIFIER OR LAB: Labeling Sustainability Inc

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.

BASE COAT BC COATINGS 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: Exterior Application: Ceiling and walls

BASE COAT PROTEKTO PLUS 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: Exterior Application: Ceiling and walls

BASE MAX 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: Exterior Application: Ceiling and walls

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Material: Joint Compound Use: Exterior Application: Ceiling and walls

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.

Section 6: References

MANUFACTURER INFORMATION

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

CONTACT NAME: **Karla Daniela Macías Luján**
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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
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 (insuficient 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
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.