Estandar Plus Ready Mix Joint Compound by Panel Rey S.A.

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 09 29 00

PRODUCT DESCRIPTION: Joint compound, as defined by ASTM C474 and C475, is used along with joint tape to join sheets of drywall by creating a seamless finish. Joint compound is comprised of a blend of minerals. Ready-mixed compound is a pre-made form of joint compound that may be used for immediate application without any additional preparation. This HPD covers the Ready-mixed joint compound line from Panel Rey S.A. These products are manufactured in the Panel Rey facilities located in Mexicali, Mexico; Monterrey, Mexico; and Mexico City, Mexico. Panel Rey® offers the multipurpose compound Estándar Plus which has been specially designed for professional installers who require an easier, more practical installation and with an excellent finish on the surface. This product has been reformulated to provide optimal performance at critical areas, e.g. the ease to be refined, reduced times for sanding, as well as adequate dry time for the new necessities of modern construction, which demand quick and high-quality work. This compound is manufactured from vinyl adhesives and other additives, it may be applied manually directly from the packaging or by using mechanical equipment. It complies with ASTM C-475 in accordance to procedures under ASTM C-474. Panel Rey products do not contain asbestos. Ready Mix Estándar Plus combines the most appreciated characteristics by installers in one product. Its properties make it ideal for finishing when treating joints, and caulking or plastering jobs, or filling in joints. It's guaranteed it won't allow microbial growth during its time on the shelves and after its application at the job site. Type of load- Limestone; Density of paste g/cm³-1.7; Viscosity @ 25° C (c/P1000)- 120; %Adherence to Panel Rey's Tape- ≥90; Cracking -No evidence of cracking; % of Shrinkage-≥35; Open time of work (minutes) ≥20; Drying time (minutes) 15 - 40; Waste due to sanding/10 cycles (g)- 1.0; pH of paste 7 - 8; Recommended application- plastering/caulking and finishes.

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 13 of 13 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

CALCIUM SULFATE [CALCIUM SULFATE (DIHYDRATE) LT-UNK]
CALCIUM CARBONATE [CALCIUM CARBONATE LT-UNK] WATER [WATER BM-4] UNDISCLOSED [UNDISCLOSED LT-P1 | CAN | PHY | END | MUL | MAM | GEN] PERLITE [PERLITE ORE NoGS] ATTAPULGITE [PALYGORSKITE FIBERS (> 5MM IN LENGTH) LT-1 | CAN] MICA [MICA-GROUP MINERALS LT-UNK] UNDISCLOSED [UNDISCLOSED LT-UNK] UNDISCLOSED [UNDISCLOSED LT-UNK] CLAY [CLAY LT-UNK | CAN] UNDISCLOSED [UNDISCLOSED LT-P1 | AQU | SKI | EYE | END | MUL] UNDISCLOSED [UNDISCLOSED LT-1 | PHY | GEN | CAN | MUL | DEL] UNDISCLOSED [UNDISCLOSED LT-UNK]

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

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

Material (g/l): Greenguard Regulatory (g/l): not applicable
Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: N/A

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*

VOC emissions: Greenguard Glod
VOC content: VOC Content
Multi-attribute: 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: 2019-02-19
PUBLISHED DATE: 2019-02-19
EXPIRY DATE: 2022-02-19

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

CALCIUM SULFATE

%: 55.0000 - 70.0000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES:

CALCIUM SULFATE (DIHYDRATE)

ID: 10101-41-4

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

HAZARD SCREENING DATE: **2019-02-19**

%: **55.0000 - 70.0000**

GS: **LT-UNK**

RC: **UNK**

NANO: **No**

ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES:

CALCIUM CARBONATE

%: 50.0000 - 70.0000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES:

CALCIUM CARBONATE

ID: 1317-65-3

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

HAZARD SCREENING DATE: **2019-02-19**

%: **50.0000 - 70.0000**

GS: **LT-UNK**

RC: **UNK**

NANO: **No**

ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES:

WATER

%: 25.0000 - 40.0000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES:

WATER

ID: 7732-18-5

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

HAZARD SCREENING DATE: **2019-02-19**

%: **25.0000 - 40.0000**

GS: **BM-4**

RC: **UNK**

NANO: **No**

ROLE: **Diluent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES:

UNDISCLOSED

%: 0.1000 - 3.5000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES:

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-19**

%: **0.5000 - 10.0000** GS: **LT-P1** RC: **UNK** NANO: **No** ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2B - Possibly carcinogenic to humans
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
GENE MUTATION	New Zealand - GHS	6.6A - Known or presumed human mutagens

SUBSTANCE NOTES:

PERLITE %: 0.1000 - 10.0000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES:

PERLITE ORE ID: 130885-09-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-19**

%: **0.1000 - 10.0000** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Lighten Weight**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES:

ATTAPULGITE %: 0.1000 - 7.0000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES:

PALYGORSKITE FIBERS (> 5MM IN LENGTH)

ID: 12174-11-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-19

%: 0.1000 - 7.0000 GS: LT-1 RC: UNK NANO: No ROLE: Thickner

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2B - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man

SUBSTANCE NOTES:

MICA

%: 0.1000 - 5.0000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES:

MICA-GROUP MINERALS

ID: 12001-26-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-19

%: 0.1000 - 5.0000 GS: LT-UNK RC: UNK NANO: No ROLE: Anti-Cracking

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES:

UNDISCLOSED

%: 0.1000 - 3.5000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities screened using the toxnet database.

OTHER MATERIAL NOTES:

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-19**

%: **0.1000 - 3.5000** GS: **LT-UNK** RC: **UNK** NANO: **No** ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

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

UNDISCLOSED %: 0.0500 - 1.5000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES:

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-19**

%: **0.0500 - 1.5000** GS: **LT-UNK** RC: **UNK** NANO: **No** ROLE: **Thickner**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES:

CLAY %: 0.0000 - 5.0000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES:

CLAY

ID: 1332-58-7

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

HAZARD SCREENING DATE: **2019-02-19**

%: **0.0000 - 5.0000**

GS: **LT-UNK**

RC: **UNK**

NANO: **No**

ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES:

UNDISCLOSED

%: **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.

OTHER MATERIAL NOTES:

UNDISCLOSED

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

HAZARD SCREENING DATE: **2019-02-19**

%: **0.0000 - 0.5000**

GS: **LT-P1**

RC: **UNK**

NANO: **No**

ROLE: **Biocide**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE IRRITATION	EU - GHS (H-Statements)	H318 - Causes serious eye damage
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES:

UNDISCLOSED

%: **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.

OTHER MATERIAL NOTES:

UNDISCLOSED

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

HAZARD SCREENING DATE: **2019-02-19**

%: **0.0000 - 0.5000**

GS: **LT-1**

RC: **UNK**

NANO: **No**

ROLE: **Defoamer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H220 - Extremely flammable gas
GENE MUTATION	EU - GHS (H-Statements)	H340 - May cause genetic defects
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 1 - Substances known to be Carcinogenic to man
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
GENE MUTATION	EU - REACH Annex XVII CMRs	Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CANCER	EU - Annex VI CMRs	Carcinogen Category 1A - Known human Carcinogen based on human evidence
GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B
GENE MUTATION	Australia - GHS	H340 - May cause genetic defects
CANCER	Australia - GHS	H350 - May cause cancer
DEVELOPMENTAL	Australia - GHS	H360Df - May damage the unborn child. Suspected of damaging fertility

SUBSTANCE NOTES:

UNDISCLOSED

%: **0.0000 - 0.1500**

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES:

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-19**

%: **0.0000 - 0.1500** GS: **LT-UNK** RC: **UNK** NANO: **No** ROLE: **Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

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	Greenguard Glod		
CERTIFYING PARTY: UL APPLICABLE FACILITIES: Mexico City, Monterrey, and Mexicali CERTIFICATE URL:	ISSUE DATE: 2014-11-25	EXPIRY DATE: 2019-02-25	CERTIFIER OR LAB: UL

CERTIFICATION AND COMPLIANCE NOTES: Certificate #: 58577-420

VOC CONTENT	VOC Content		
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: VOC content is not location specific. All facilities are included. CERTIFICATE URL:	ISSUE DATE: 2019-02-13	EXPIRY DATE:	CERTIFIER OR LAB: Panel Rey S.A.

CERTIFICATION AND COMPLIANCE NOTES:

MULTI-ATTRIBUTE	Type III Environmental Product Declaration		
CERTIFYING PARTY: Thomas Gloria, Industrial Ecology APPLICABLE FACILITIES: All Panel Rey facilities CERTIFICATE URL:	ISSUE DATE: 2017-11-08	EXPIRY DATE: 2022-11-08	CERTIFIER OR LAB: UL Environment

CERTIFICATION AND COMPLIANCE NOTES: This is a sector EPD for Drywall Finishing Joint Compound. It was performed on behalf of the Drywall finishing council and Panel Rey S.A. is a participating member. The content of the declaration included: Product definition and information about building physics, information about basic material and the material's origin, description of the product's manufacturing, , indication of product processing, information about the in-use conditions, life cycle assessment results, and testing results and verifications. This declaration refers to the functional unit as prescribed by the PCR. The functional unit is defined as "100 m2 of covered substrate considering an installation scenario as defined by a GA-214 Level 4 finish with the quantity adjusted for the measured shrinkage (testing per ASTM C474) for a service life of 75 years."

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.

No accessories are required for this product.

Section 5: General Notes

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

Section 6: References

MANUFACTURER INFORMATION

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

CONTACT NAME: **Karla Daniela Macias Lujan**
TITLE: **Product Technology Specialist**
PHONE: **(81) 8305 3800**
EMAIL: **kmacias@gpromax.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 (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.