TYPE M MORTAR - SPEC MIX
by Package Pavement - Spec Mix

Health Product Declaration v2.1

CLASSIFICATION: 04 05 13 (MASONRY MORTARING)

created via: HPDC Online Builder

PRODUCT DESCRIPTION: SPEC MIX® PORTLAND LIME & SAND TYPE M MORTAR (PCL) IS A DRY PRE-BLENDED MORTAR MIX CONTAINING PORTLAND CEMENT, HYDRATED LIME AND DRIED MASONRY SAND FORMULATED FOR SUPERIOR BOND, WATER RETENTION AND BOARD LIFE. OUR TYPE M MORTARS, SOLD UNDER THE SPEC MIX AND PACKAGE PAVEMENT BRANDS, COMPLY WITH ASTM C 270 AND ASTM C 1714 REQUIREMENTS. SPEC MIX TYPE M MORTAR IS AVAILABLE IN STANDARD OR CUSTOM COLORS.

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 1 of 3 Materials

Explanation(s) provided for Residuals/Impurities?
- (•) Yes ( ) No

Are All Substances Above the Threshold Indicated:

Characterized
Percent Weight and Role Provided?
(•) Yes ( ) No

Screened
Using Priority Hazard Lists with Results Disclosed?
(•) Yes ( ) No

Identified
Name and Identifier Provided?
(•) Yes ( ) No

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

TYPE M MORTAR [QUARTZ (QUARTZ) LT-1 | CAN] PORTLAND CEMENT - CAS# 65997-15-1 [TRICALCIUM SILICATE (TRICALCIUM SILICATE (CEMENT INGREDIENT)) LT-UNK DICALCIUM SILICATE (DICALCIUM SILICATE (PORTLAND CEMENT INGREDIENT)) LT-UNK CALCIUM ALUMINATE (CALCIUM ALUMINATE (PORTLAND CEMENT INGREDIENT)) LT-UNK LIMESTONE; CALCIUM CARBONATE (LIMESTONE; CALCIUM CARBONATE (PORTLAND CEMENT INGREDIENT)) LT-UNK GYPSUM (GYPSUM (PORTLAND CEMENT INGREDIENT)) LT-UNK] HYDRATED LIME [CALCIUM HYDROXIDE (CALCIUM HYDROXIDE (LIME INGREDIENT)) LT-P1 MAGNESIUM HYDROXIDE (MAGNESIUM HYDROXIDE (LIME INGREDIENT)) BM-3]

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:

The primary binders of this preblended mortar, Portland Cement and Hydrated Lime are deconstructed to list the raw materials used for producing these material components of mortar. Please note that the LT-1 (BM-1) warning that is applied to Quartz Sand used in all ASTM C270 specified mortar mixes, only applies to this product in its dry form when handled, mixed with water for placement or aggravated during demolition (including but not limited to, cutting,drilling, chipping, crushing or milling). Once the mortar has cured in place the primary risk of silica dust is diffused, as is the case with quartz countertops and glass windows.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

No certifications have been added to this HPD.

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?
- ( ) Yes
- (•) No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2017-10-17
PUBLISHED DATE: 2017-10-20
EXPIRY DATE: 2020-10-17

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

TYPE M MORTAR

%: 100.0000 - 100.0000 **HPD URL:**

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: The residuals and impurities are considered for ingredients greater than or equal to 1000 ppm. This Type M Mortar is a pre-blended product made up of the components listed below.

OTHER MATERIAL NOTES:

QUARTZ (QUARTZ)

ID: **14808-60-7**

%: **73.5000 - 74.5000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **AGGREGATE**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
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	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	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Risk is associated with dust exposure during mixing of the dry product. There is no evidence of risk once the product is activated with water and cured in place.

PORTLAND CEMENT - CAS# 65997-15-1

%: 23.0000 - 24.0000 **HPD URL:**

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Portland Cement has not undergone a Greenscreen Assesment but is considered a Carcinogen Group 3B Chemical. Specific risks associated with Portland Cement are chemical burns to skin, eyes or lungs contact, Inhalation of Portland Cement may cause caustic and 3rd Degree Burns.

OTHER MATERIAL NOTES: This product contains 9.6% Pre Consumer Recycled Content

TRICALCIUM SILICATE (TRICALCIUM SILICATE (CEMENT INGREDIENT))

ID: **12168-85-3**

%: **10.5000 - 12.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **PORTLAND CEMENT - INGREDIENT**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: PORTLAND CEMENT INGREDIENT

DICALCIUM SILICATE (DICALCIUM SILICATE (PORTLAND CEMENT INGREDIENT))

ID: **10034-77-2**

%: **4.5000 - 5.5000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **PORTLAND CEMENT - INGREDIENT**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: PORLAND CEMENT INGREDIENT

CALCIUM ALUMINATE (CALCIUM ALUMINATE (PORTLAND CEMENT INGREDIENT))

ID: **12042-78-3**

%: **2.5000 - 3.5000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **PORTLAND CEMENT - INGREDIENT**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Portland Cement Ingredient

LIMESTONE; CALCIUM CARBONATE (LIMESTONE; CALCIUM CARBONATE (PORTLAND CEMENT INGREDIENT))

ID: **1317-65-3**

%: **1.5000 - 2.5000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **PORTLAND CEMENT - INGREDIENT**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: An ingredient of Portland Cement

GYPSUM (GYPSUM (PORTLAND CEMENT INGREDIENT))

ID: **13397-24-5**

%: **0.1000 - 2.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **PORTLAND CEMENT - INGREDIENT**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: An ingredient used in Portland Cement

HYDRATED LIME

%: 2.0000 - 3.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Hydrated Lime is a blend of Calcium Hydroxide ad Magnesium Hydroxide. The residuals and impurities are considered when greater than or equal to 1000 ppm.

OTHER MATERIAL NOTES:

CALCIUM HYDROXIDE (CALCIUM HYDROXIDE (LIME INGREDIENT))

ID: **1305-62-0**

%: **1.5000 - 2.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **LIME INGREDIENT**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: This raw material is a component of Hydrated Lime

MAGNESIUM HYDROXIDE (MAGNESIUM HYDROXIDE (LIME INGREDIENT))

ID: **1309-42-8**

%: **0.5000 - 1.5000** GS: **BM-3** RC: **None** NANO: **No** ROLE: **LIME INGREDIENT**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Magnesium Hydroxide is a component of Hydrated Lime.

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.

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.

POTABLE WATER

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Use clean, potable water; add the amount of water consistent with optimum workability which provides adequate water to satisfy the initial rate of absorption of the masonry units. Mix the blend for 4-5 minutes and maintain a consistent mixing time from batch to batch.

Section 5: General Notes

Our Type M Mortar is crafted to meet or exceed the property specifications of ASTM C-270 and ASTM C-1714. With the natural variations found in mined raw materials, including color, gradation and overall composition, we have listed the ingredients according to the information provided by our suppliers. Prior to use, the user must be made aware of the risks of silica dust, and the chemical risks associated with exposure of Portland cement and lime, which can cause serious damage to skin, eyes and lungs. Proper safety gear must be used, including waterproof safety gloves and work boots, an ANSI approved dust mask and eye protection and long sleeve shirt to avoid exposure.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Package Pavement - Spec Mix**
ADDRESS: **675 LEETOWN ROAD**
P.O. Box 408
Stormville New York 12582, United States
WEBSITE: **www.packagepavement.com**

CONTACT NAME: **John J Doherty**
TITLE: **VP Communications**
PHONE: **8007248193**
EMAIL: **jd@packagepavement.com**

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classi cation 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 Unspeci ed (insu cient 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 produc

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

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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.