

HPD UNIQUE IDENTIFIER: 23233

CLASSIFICATION: 03 31 00 Structural Concrete

PRODUCT DESCRIPTION: Aparentia concrete, as screened in this HPD, conforms to the following specifications: In English: Weight of the mixture- 2,370 [kg / m3]; Compressive Strength at 28 days- 44.1 [MPa]; Nominal Slump- 24 [cm]; Nominal air content- 2- 3 [%]; Maximum size Gravel ( limestone)- 20 [mm]; Size of sand- No.4.75 [mm]; Shrink Limit @ 56 days- .001 En Espanol: Peso Volumétrico- 2,370 [kg/m3]; Resistencia a Compresión to 28 days- 44.1 [MPa]; Revenimiento Nominal- 24 [cm]; Contenido de Aire Nonimal- 2 a 3 [%]; Tamaño Máximo de Agregado( limestone)- 20 [mm]; Tamaño de Arena- No.4.75 [mm]; Contracción máxima@ 56 dias- .001

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

<p><b>Inventory Reporting Format</b></p> <p><input checked="" type="radio"/> Nested Materials Method</p> <p><input type="radio"/> Basic Method</p> <p><b>Threshold Disclosed Per</b></p> <p><input type="radio"/> Material</p> <p><input checked="" type="radio"/> Product</p>	<p><b>Threshold level</b></p> <p><input checked="" type="radio"/> 100 ppm</p> <p><input type="radio"/> 1,000 ppm</p> <p><input type="radio"/> Per GHS SDS</p> <p><input type="radio"/> Other</p>	<p><b>Residuals/Impurities</b></p> <p>Residuals/Impurities Considered in 6 of 6 Materials</p> <p><b>Explanation(s) provided for Residuals/Impurities?</b></p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>All Substances Above the Threshold Indicated Are:</i></p> <p><b>Characterized</b> <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No</p> <p><i>% weight and role provided for all substances except SC substances characterized according to SC guidance.</i></p> <p><b>Screened</b> <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No</p> <p><i>All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.</i></p> <p><b>Identified</b> <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p><i>One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.</i></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**  
**SC:GEOMAT:GRAVEL [ SC:LIMESTONE Not Screened SC:QUARTZ Not Screened ]**  
**SC:GEOMAT:CRUSHEDSTONE(FINE)/AGREGADOFINO [ SC:SAND Not Screened SC:QUARTZ Not Screened ] CEMENT [ PORTLAND CEMENT LT-P1 | END | CAN ALUMINUM OXIDE BM-2 | RES FERRIC OXIDE BM-1 | CAN LIME LT-P1 SILICON DIOXIDE BM-1 | CAN MAGNESIUM OXIDE LT-UNK | CAN SULFUR TRIOXIDE LT-P1 | MAM ]**  
**WATER [ WATER (PRIMARY CASRN IS 7732-18-5) BM-4 ]**  
**UNDISCLOSED [ WATER (PRIMARY CASRN IS 7732-18-5) BM-4 ]**  
**UNDISCLOSED [ WATER BM-4 UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK ]**

Number of Greenscreen BM-4/BM3 contents ... 3

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special conditions applied: GeologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

This inventory was made with primary information from CEMEX CTCC (Mexico). Actual material was not tested therefore any information about residuals and impurities is listed simply as a reference based on scientific literature in Pharos and the toxnet databases. The presence of the residual or impurity substance can not be confirmed through the listing in this HPD. CEMEX CTCC has made its best effort to collect product substance information and comply with the HPD format. Any errors are simply mistakes and notification of the CEMEX contact should be made.

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: LEED v4.1 Non Emitting Material

LCA: Environmental Product Declaration

CONSISTENCY WITH OTHER PROGRAMS

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2020-12-15

PUBLISHED DATE: 2020-12-21

EXPIRY DATE: 2023-12-15

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 2.2, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-2-standard](http://www.hpd-collaborative.org/hpd-2-2-standard)

**SC:GEOMAT:GRAVEL**

**%: 30.0000 - 40.0000**

PRODUCT THRESHOLD: 100 ppm    RESIDUALS AND IMPURITIES CONSIDERED: Yes    MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: POTENTIAL RESIDUAL: "Building materials, such as concrete and dimension stone (sandstone, granite, and limestone are examples) contain crystalline silica in the form of quartz." (USGS Crystalline Silica Primer) Limestone typically contains between 0.1% and 1% quartz. (MSHA MSDS & Specialty MSDS) - Per the Pharos Database.

OTHER MATERIAL NOTES: SpecialConditionApplied:GeologicalMaterial --- Agregado grueso

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-12-15**

%: **100.0000**                      GS: **Not Screened**                      RC: **UNK**                      NANO: **No**                      SUBSTANCE ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening not performed		

**SUBSTANCE NOTES:**

Version: SCGeoMats/2019-06-20

Origin: Mexico

Typical Composition: Limestone

Potential presence of toxic metals: This disclosure does not provide information on the potential presence of toxic metals.

Presence of Radioactive Elements: This disclosure does not provide radioactive elements which may be found in certain geological materials.

The presence of residuals and impurities is based on the Pharos database and is for reference only. The actual product has not been tested for residuals or impurities.

SC:QUARTZ

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-12-15**

%: **Impurity/Residual**                      GS: **Not Screened**                      RC: **UNK**                      NANO: **No**                      SUBSTANCE ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening not performed		

**SUBSTANCE NOTES:**

Version: SCGeoMats/2019-06-20

Origin: Mexico

Typical Composition: This disclosure does not provide typical composition.

Potential presence of toxic metals: This disclosure does not provide information on the potential presence of toxic metals.

Presence of Radioactive Elements: This disclosure does not provide radioactive elements which may be found in certain geological materials.

POTENTIAL RESIDUAL: "Building materials, such as concrete and dimension stone (sandstone, granite, and limestone are examples) contain crystalline silica in the form of quartz." (USGS Crystalline Silica Primer) Limestone typically contains between 0.1% and 1% quartz. (MSHA MSDS & Specialty MSDS) - Per the Pharos Database.

SC:GEOMAT:CRUSHEDSTONE(FINE)/AGREGADOFINO    %: **25.0000 - 35.0000**

PRODUCT THRESHOLD: **100 ppm**                      RESIDUALS AND IMPURITIES CONSIDERED: **Yes**                      MATERIAL TYPE: **Geologically Derived Material**

RESIDUALS AND IMPURITIES NOTES: The presence of quartz as a residual is defined by the Pharos database at 0.1-1%. The actual material used has not been tested and therefore the presence at what quantity is unknown.

**SC:SAND**ID: **SC:GeoMat**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-12-15**%: **100.0000** GS: **Not Screened** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Binder**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

Hazard Screening not performed

## SUBSTANCE NOTES:

Version: SCGeoMats/2019-06-20

Origin: Mexico

Typical Composition: This disclosure does not provide typical composition.

Potential presence of toxic metals: This disclosure does not provide information on the potential presence of toxic metals.

Presence of Radioactive Elements: This disclosure does not provide radioactive elements which may be found in certain geological materials.

POTENTIAL RESIDUAL: "Building materials, such as concrete and dimension stone (sandstone, granite, and limestone are examples) contain crystalline silica in the form of quartz." (USGS Crystalline Silica Primer) Limestone typically contains between 0.1% and 1% quartz. (MSHA MSDS & Specialty MSDS) - Per the Pharos Database.

**SC:QUARTZ**ID: **SC:GeoMat**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-12-15**%: **Impurity/Residual** GS: **Not Screened** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

Hazard Screening not performed

## SUBSTANCE NOTES:

Version: SCGeoMats/2019-06-20

Origin: Mexico

Typical Composition: This disclosure does not provide typical composition.

Potential presence of toxic metals: This disclosure does not provide information on the potential presence of toxic metals.

Presence of Radioactive Elements: This disclosure does not provide radioactive elements which may be found in certain geological materials.

POTENTIAL RESIDUAL: "Building materials, such as concrete and dimension stone (sandstone, granite, and limestone are examples) contain crystalline silica in the form of quartz." (USGS Crystalline Silica Primer) Limestone typically contains between 0.1% and 1% quartz. (MSHA MSDS & Specialty MSDS) - Per the Pharos Database.

**CEMENT**%: **15.0000 - 25.0000**

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: According to the Pharos database Portland cement as 14 different known or potential residuals and impurities. Only substances with a known presence above the 0.1 thresholds will be in this HPD and should be noted that they are for reference only. The presence of any of these residuals is unknown in the actual material. No testing has been conducted on the actual material.

## OTHER MATERIAL NOTES:

**PORTLAND CEMENT**ID: **65997-15-1**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-12-15**%: **20.0000 - 30.0000** GS: **LT-P1** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: There are 14 potential residuals and impurities listed in the Pharos database. Only potentials with a known percentage above the threshold will be listed on this HPD. The presence of any of these residuals is unknown in the actual material. No testing has been conducted on the actual material.

### ALUMINUM OXIDE

ID: 1344-28-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-12-15		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		

SUBSTANCE NOTES: Aluminum Oxide = 5% mass fraction of Portland Cement (NIST MSDS)

TSCA Definition 2008: Portland cement is a mixture of chemical substances produced by burning or sintering at high temperatures (greater than 1200.degree.C (2192.degree.F)) raw materials which are predominantly calcium carbonate, aluminum oxide, silica, and iron oxide. The chemical substances which are manufactured are confined in a crystalline mass. This category includes all of the chemical substances specified below when they are intentionally manufactured in the production of Portland cement. The primary members of the category are Ca2SiO4 and Ca3SiO5. Other compounds listed below may also be included in combination with these primary substances.: CaAl2O4; CaAl4O7; CaAl12O11; Ca3Al2O6; Ca12Al14O33; CaO; Ca2Fe2O5; Ca2Al2SiO7; Ca4Al6SO16; Ca12Al14Cl2O32; Ca12Al14F2O32; Ca4Al2Fe2O10; Ca6Al14Fe2O15 (National Library of Medicine Record)

### FERRIC OXIDE

ID: 1309-37-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-12-15		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification		

SUBSTANCE NOTES: Ferric Oxide = 4% mass fraction of Portland Cement (NIST MSDS)

### LIME

ID: 1305-78-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-12-15		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Calcium Oxide (CAS No. 1305-78-8) = 64% mass fraction of Portland Cement (NIST MSDS)- Per Pharos database.

### SILICON DIOXIDE

ID: 7631-86-9

%: **Impurity/Residual** GS: **BM-1** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	GHS - Japan	Carcinogenicity - Category 1A [H350]
CAN	GHS - Australia	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: Silicon Dioxide = 20% mass fraction of Portland Cement (NIST MSDS)

**MAGNESIUM OXIDE** ID: **1309-48-4**

%: **Impurity/Residual** GS: **LT-UNK** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: Magnesium Oxide = 1% mass fraction of Portland Cement (NIST MSDS)- Per Pharos database.

**SULFUR TRIOXIDE** ID: **7446-11-9**

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

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MAM	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances

SUBSTANCE NOTES: Sulfur Trioxide = 3% mass fraction of Portland Cement (NIST MSDS)- Per Pharos database.

**WATER** %: **6.0000 - 10.0000**

PRODUCT THRESHOLD: **100 ppm** RESIDUALS AND IMPURITIES CONSIDERED: **Yes** MATERIAL TYPE: **Other: Water**

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities were noted in the Pharos database.

OTHER MATERIAL NOTES:

**WATER (PRIMARY CASRN IS 7732-18-5)** ID: **652133-48-7**

%: **100.0000** GS: **BM-4** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Solvent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: No residuals or impurities are registered for this substance per the Pharos database.

PRODUCT THRESHOLD: 100 ppm      RESIDUALS AND IMPURITIES CONSIDERED: Yes      MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were noted per the Pharos database above the threshold. The presence of impurity is based on scientific peer-reviewed data and no samples were tested by Cemex for confirmation. All listings of impurities are for informational purposes only.

OTHER MATERIAL NOTES: The inventory of this material is proprietary and was not disclosed by the manufacturer. The SDS shows no hazardous materials based on the globally harmonized system for declaring hazardous substances. Per GHS guidelines a hazardous substance must be listed regardless of its threshold. The SDS for this substance does not give a substance inventory. To complete this HPD, industry average data was used from the Type III Environmental Product Declaration for Concrete Admixtures, Retarders, EFCA Model EPD: Retarders, Ref EPD-EFC-20150088-1AG1-EN. Chemicals included are listed by their family name and not individual CAS RN therefore they cannot be listed in the HPD. Only water is listed and screened. The substances are Sucrose max 20%, Gluconates max 30%, Phosphates Max 60%, Lignin Sulphonates max 10%, additives max 0.2%, and water 50-98%.

**WATER (PRIMARY CASRN IS 7732-18-5)**

ID: 558440-22-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**      HAZARD SCREENING DATE: **2020-12-15**

#: **50.0000 - 98.0000**      GS: **BM-4**      RC: **UNK**      NANO: **No**      SUBSTANCE ROLE: **Diluent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were noted per the Pharos database above the threshold. The presence of impurity is based on scientific peer-reviewed data and no samples were tested by Cemex for confirmation. All listings of impurities are for informational purposes only.

PRODUCT THRESHOLD: 100 ppm      RESIDUALS AND IMPURITIES CONSIDERED: Yes      MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were considered based on PubMed and Pharos databases. None exists above the required threshold for the screened material.

OTHER MATERIAL NOTES: This material is protected by intellectual property rights and is not disclosed to protect its formula. The material has been screened based on primary information from CEMEX and all hazards are listed.



**WATER**

ID: 7732-18-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-12-15**%: **40.0000 - 70.0000** GS: **BM-4** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Diluent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

**UNDISCLOSED**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-12-15**%: **30.0000 - 60.0000** GS: **LT-UNK** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Humectant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The undisclosed material may contain this substance. No residuals or impurities were found in the Pharos database above the required threshold.

**UNDISCLOSED**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-12-15**%: **30.0000 - 60.0000** GS: **LT-UNK** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Humectant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The undisclosed material may contain this substance. No residuals or impurities were found in the Pharos database above the required threshold.

**UNDISCLOSED**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-12-15**%: **20.0000 - 40.0000** GS: **LT-UNK** RC: **UNK** NANO: **Unknown** SUBSTANCE ROLE: **Defoamer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: No residuals or impurities exist above the required threshold.

## 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	LEED v4.1 Non Emitting Material		
CERTIFYING PARTY: Self-declared	ISSUE DATE: 2020-12-	EXPIRY DATE:	CERTIFIER OR LAB: USGBC Leed
APPLICABLE FACILITIES: This is not a facility-specific designation.	15		Credit: Low Emitting Materials
CERTIFICATE URL:			
CERTIFICATION AND COMPLIANCE NOTES: Per the LEED v4.1 standard for Building Design and Construction, page 207, Concrete is a non-emitting source. No VOC testing for emissions is necessary.			

LCA	Environmental Product Declaration		
CERTIFYING PARTY: Third Party	ISSUE DATE: 2017-09-	EXPIRY DATE: 2022-	CERTIFIER OR LAB: Athena
APPLICABLE FACILITIES: Mexico City Business Unit at Armas Plant in Mexico City, Mexico	01	09-01	Sustainable Materials Institute
CERTIFICATE URL:			
CERTIFICATION AND COMPLIANCE NOTES: NRMCAEPD:10012			

## 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

A range of percentage of product composition was used in this HPD to hide the actual product composition for proprietary reasons. This is a list of plants that produce the Aparentia Concrete: ZONA PACIFICO CD. GUZMÁN: PD0152 CD.GUZMAN, PD0500 AUTLAN; CD. OBREGÓN: PD0214 CD.OBREGON, PD0342 CONSTELLATION CD.OBREGON 2, PD0447 CONSTELLATION CD.OBREGON; COLIMA: PD0147 COLIMA; CULIACAN: PD0135 CULIACAN, PD0420 CULIACAN II; ENSENADA: PD0340 EL SAUZAL, PD0445 ENSENADA; GUADALAJARA: PD0083 GUADALAJARA I III, PD0123 TLAJOMULCO, PD0127 MANANTIAL, PD0149 GDL.MATRIZ, PD0150 PLANTA 2 PERIFERICO, PD0154 PLANTA OCOTLAN, PD0174 TESISTAN, PD0280 PLANTA COLOTLAN, PD0339 EL SALTO, PD0406 PLANTA PONIENTE, PD0423 LA PERLA, PD0452 ZAPOPAN III, PD0454 CD. LA GRANJA II, PD0494 PLANTA PONIENTE II, PD0518 TONALA; GUAYMAS: PD0146 GUAYMAS I; HERMOSILLO: PD0196 HERMOSILLO AEROPUERTO, PD0212 HERMOSILLO CENTRO, LA PAZ: PD0272 EOLICO COROMUEL, PD0427 LA PAZ 1, LAGOS DE MORENO: PD0156 LAGOS DE MORENO, PD0418 PARQUE COLINAS; LOS CABOS: PD0428 RIU LOS CABOS, PD0429 SAN JOSE DEL CABO; LOS MOCHIS: PD0179 LOS MOCHIS; MANZANILLO: PD0151 MANZANILLO, PD0278 EL TAMARINDO; MAZATLÁN: PD0195 MAZATLÁN, PD0275 MAZATLAN 2; MEXICALI: PD0170 MEXICALI PALACO, PD0197 MEXICALI PALACO II, PD0290 CONSTELLATION MEXICALI; TEPATITLÁN: PD0131 TEPATITLAN; TEPEC: PD0130 TEPEC, PD0302 CANAL CENTENARIO 2, PD0988 TROYA CANAL CENTENARIO 2; TIJUANA: PD0161 TIJ.VALLE SUR, PD0163 TIJ.GARCIA, PD0167 TIJ.OTAY, PD0220 VIA RAPIDA TIJUANA, PD0341 ALAMAR II, PD0419 SAN PEDRO-TECATE; VALLARTA: PD0159 PUERTO VALLARTA, PD0244 PLANTA CAPOMO, PD0432 TRONCAL SAN PANCHO, PD0434 PLANTA MAYAN, PD0446 TUNELES GUAMUCHIL, PD0563 PUNTA DE MITA ZONA CENTRO ACAPULCO: PD0076 ACAPULCO (MORTEROS), PD0397 PLAN DE LOS AMATES, PD0983 TROYA ACAPULCO; CUAUTLA: PD0430 CUAUTLA II; CUERNAVACA: PD0193 TEZOYUCA; CDMX: PD0063 CENTRAL, PD0065 CEYLAN, PD0067 LOS REYES, PD0071 XOCHIMILCO, PD0081 HUEHUETOCA V, PD0086 VALLEJO, PD0088 ARMAS, PD0099 MINAS, PD0186 IZTAPALAPA, PD0189 ROJO GOMEZ, PD0190 XALOSTC, PD0237 LA ESTRELLA, PD0282 DF ARMAS II, PD0284 LA ESTRELLA III, PD0293 TLAHUAC, PD0315 CUAUTITLAN II, PD0317 SANTA FE, PD0331 NAUCALPAN II, PD0426 MINAS III, PD0458 ECATEPEC II, PD0464 NAUCALPAN III, PD0495 ECATEPEC IV, PD0556 ZUMPANGO, PD0625 ESTRELLA II, CTCC; LÁZARO CÁRDENAS: PD0526 LÁZARO CÁRDENAS 2; MORELIA: PD0117 MORELIA; PACHUCA: PD0037 TULA V, PD0091 TULA IV, PD0178 HUEJUTLA 2, PD0208 SAHAGUN, PD0481 EMILIANO ZAPATA, PD0481 PACHUCA, PD0482 TIZAYUCA, PD0527 TEPEJI; QUERÉTARO: PD0192 AEROPUERTO QRO, PD0255 CASAS ARA 2, PD0283 LA ESTANCIA, PD0497 QUERÉTARO, PD0498 PARQUE INDUSTRIAL, PD0499 CASAS ARA, PD0528 VIVEICA; SAN JUAN DEL RÍO: PD0505 SAN JUAN DEL RÍO, TIZAPA: PD0243 TIZAPA; TOLUCA: PD0187 TOLUCA, PD0338 ATLACOMULCO, PD0404 TOLUCA LERMAS; URUAPAN: PD0078 URUAPAN; ZAMORA: PD0153 ZAMORA ZONA NORESTE AGUASCALIENTES: PD0401 SUR II, PD0615 AGUASC NORTE, PD0616 AGUASC SUR; CD. VICTORIA, PD0510 CD. VICTORIA; CELAYA: PD0286 SAN MIGUEL DE ALLENDE, PD0444 APASEO, PD0643 CELAYA; COAHUILA NORTE: PD0016 PIEDRAS NEGRAS, PD0032 CASTAÑOS, PD0051 ACUÑA; DURANGO: PD0034 DURANGO; EOLICO SANTIAGO: PD0218 EOLICO SANTIAGO 2, PD0224 EOLICO SANTIAGO 1; IRAPUATO: PD0513 IRAPUATO II, PD0641 IRAPUATO; LAREDO:

PD0204 LAREDO; LEÓN: PD0245 SILAO II, PD0407 MICHELLIN, PD0635 LEÓN 1 LIBRAMIENTO, PD0636 LEÓN 2 HILAMAS, PD0638 LEÓN 5 CEMENTOS, PD0640 SILAO; MATAMOROS: PD0038 MATAMOROS II, PD0048 MATAMOROS; MONTERREY: PD0002 SANTA ROSA, PD0007 MTY. I ESCOBEDO, PD0011 MORONES PRIETO, PD0017 CADEREYTA, PD0018 LOS LERMAS, PD0022 INSURGENTES, PD0023 LOS LERMAS A, PD0027 LI-MON, PD0033 RUIZ CORTINEZ, PD0233 SANTA CATARINA, PD0239 TALAVERNA II, PD0246 MONTERREY II, PD0261 NUEVO APODACA, PD0306 NUEVO APODACA 2, PD0411 ZUAZUA, PD0424 Insurgentes II, PD0466 CIUDAD MITRAS, PD0484 VIADUCTO STA CATARINA, PD0549 SANTA ROSA 2; PESQUERIA: PD0436 PESQUERIA, PD0453 PESQUERIA 3; POZA RICA: PD0316 TUXPAN, PD0546 POZA RICA; REYNOSA: PD0052 REYNOSA 1, PD0262 BALCONES II; SALTILLO: PD0029 SALTILLO 1 PERF., PD0232 IKANO SALTILLO, PD0236 ARTEAGA, PD0301 LOMAS LOURDES, PD0405 PLANTA 4 RAMOS ARIZPE; SAN LUIS POTOSÍ: PD0548 S.L.P PLANTA 1, PD0551 PLANTA CD. VALLES, PD0552 PTA. ZONA INDUSTRI; TAMPICO: PD0506 PLANTA ALTAMIRA; TORREON: PD0035 GOMEZ PALACIOS, PD0036 AEROPUERTO TORREON, PD0235 PUENTE MIELERAS; ZACATECAS: PD0544 ZACATECAS PLANTA 1; EÓLICO SAN CARLOS: PD0228 SAN CARLOS 1, PD0507 SAN CARLOS 2; EÓLICO FENICIAS: PD0219 EOLICO FENICIAS 2, PD0415 EOLICO FENICIAS 1; ZONA SURESTE CAMPECHE: PD0061 CAMPECHE, PD0400 CAMPECHE II; CANCUN: PD0055 CANCUN, PD0057 PLAYA DEL CARMEN, PD0188 NIZUC, PD0247 PUERTO MORELOS, PD0270 RIVIERA MAYA, PD0300 PETEMPICH, PD0304 MAYACOBIA II, PD0311 PUERTA DEL MAR II, PD0327 RIVIERA II, PD0403 PETEMPICH II, PD0410 ARCO VIAL, PD0440 VIVEICA PASEO LAS PALMAS, PD0442 CALINTER 2, PD0455 PAAMUL II, PD0502 ARCO VIAL II, PD0509 VILLAS DEL SOL II, PD0665 TULUM; CARDEL-POZA RICA: PD0431 CARDEL-POZA RICA, CARRETERA EJUTLA - PUERTO ESCONDIDO: PD0379 EL GAVILAN; CARRETERA MITLA-TEHUANTEPEC: PD0209 MELITON; CD. DEL CARMEN: PD0326 PUENTE LA UNIDAD 2, PD0440 CD.DEL CARMEN; CHETUMAL: PD0109 CHETUMAL; COATZACOALCOS: PD0203 COATZACOALCOS II, PD0279 TESECHOACAN, PD0399 NUEVO TEAPA, PD0471 COATZACOALCOS, PD0553 PLANTA ACAYUCAN, PD0986 SUCHILAPAN; COZUMEL: PD0056 COZUMEL; EOLICAS: PD0328 ESPINAL - SANTA RITA II, PD0334 4 MILPAS, PD0461 ESPINAL SANTA RITA; EÓLICOS PUEBLA: PD0409 EÓLICOS II; MÉRIDA: PD0058 MERIDA PLANTA II, PD0059 MERIDA PLANTA I, PD0229 MERIDA III, PD0231 MERIDA III, PD0274 VALLADOLID II, PD0441 DZITYA I, PD0451 DZITYA II, PD0992 CAVA DZITYA, PD0993 CAVA PERIFERICO; NUEVO NECAXA: PD0470 SAN MARCOS 2; OAXACA: PD0080 SALINA CRUZ, PD0101 OAXACA, PD0298 SALINA CRUZ II; ORIZABA: PD0092 ORIZABA, PD0116 PLANTA ZONGOLICA, PD0491 PLANTA TIERRA BLANCA; PINOTEPA: PD0046 JAMILTEPEC, PD0389 ZACATEPEC; PUEBLA: PD0316 PLANTA NUEVO NECAXA III, PD0468 PLANTA CHACHAPA, PD0469 ATLIXCO, PD0472 TEPEACA H2, PD0473 SEDENA PUEBLA, PD0474 VIALIDADES PUEBLA I, PD0475 PUEBLA II, PD0476 SAN MARTIN, PD0601 PLANTA AUDI 1, PD0630 CHIPILLO; SALINA CRUZ: PD0462 SALINA CRUZ II; TAPACHULA: PD0060 TAPACHULA, PD0310 TAPACHULA II; TLAXCALA: PD0435 APIZACO III; TUXTLA GUTIÉRREZ: PD0200 TUXTLA GUTIERREZ, PD0387 MINI PLANTA CHIAPAS, PD0422 PLANTA ARRIAGA, PD0480 SAN CRISTOBAL, PD0525 TUXTLA GUTIERREZ II, PD0994 PROYECTO TROYA TONALA; VERACRUZ: PD0202 VERACRUZ II, PD0297 PUERTO SECO, PD0336 COYOL I, PD0433 AMPLIACION LAGUNA VERDE, PD0562 API II, PD0999 PROYECTO TROYA; VILLAHERMOSA: PD0183 VILLAHERMOSA, PD0207 SOL DE CARDENAS, PD0268 SAMARIA II, PD0294 VILLAHERMOSA II, PD0391 PLANTA BALANCAN, PD0402 PALENQUE II, PD0477 CARDENAS, PD0984 MEZCALAPA, PD0999 CONCRETEC-TROYA; XALAPA: PD0062 FIDELIDAD, PD0110 JALAPA, PD0226 CD. PRIMAVERA, PD0305 LAS TRANCAS II, PD0386 MISANTLA, PD0987 MADROÑO

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**KEY**

**Hazard Types**

<b>AQU</b> Aquatic toxicity	<b>LAN</b> Land toxicity	<b>PHY</b> Physical hazard (flammable or reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple	<b>RES</b> Respiratory sensitization
<b>END</b> Endocrine activity	<b>NEU</b> Neurotoxicity	<b>SKI</b> Skin sensitization/irritation/corrosivity
<b>EYE</b> Eye irritation/corrosivity	<b>NF</b> Not found on Priority Hazard Lists	<b>UNK</b> Unknown
<b>GEN</b> Gene mutation	<b>OZO</b> Ozone depletion	
<b>GLO</b> Global warming	<b>PBT</b> Persistent, bioaccumulative, and toxic	

**GreenScreen (GS)**

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-1</b> List Translator 1 (Likely Benchmark-1)
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-UNK</b> List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	
<b>BM-U</b> Benchmark Unspecified (due to insufficient data)	
<b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1)	<b>NoGS</b> No GreenScreen.

**Recycled Types**

**PreC** Pre-consumer recycled content  
**PostC** Post-consumer recycled content  
**UNK** Inclusion of recycled content is unknown  
**None** Does not include recycled content

**Other Terms:**

**GHS SDS** Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

**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.*