

CLASSIFICATION: 03 30 00

PRODUCT DESCRIPTION: Weight of the mixture > [kg / m3] 2300, Resistance to 28 days [MPa] 40 and 60 (Conversion 1 MPa=10.1972 kg/cm2), Nominal Revenge 18 +/- 3 cm, Nominal air content < [%] 3, Water ratio in cementing material 0.35, Maximum size Gravel 1 limestone [mm] 20, Size of river sand [mm] 0-0.05, Shrink Limit [%] 0.0350 @ 56 days. UNSPSC Code 30111500 Ready Mix Concrete. This concrete is rated for structural construction and can be made at plant located onsite Nuevo Aeropuerto Internacional de México (NAIM) located at Autopista Peñón-Texcoco Km 7.5 s/n, Texcoco de Mora, Edo. De México, CP 56100.

Section 1: Summary

Basic 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

- Considered
 Partially Considered
 Not Considered

Explanation(s) provided
for Residuals/Impurities?

- Yes No

Are All Substances Above the Threshold Indicated:

Characterized Yes No

Percent Weight and Role Provided?

Screened Yes No

Using Priority Hazard Lists with Results Disclosed?

Identified Yes No

Name and Identifier Provided?

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**

C1-151 [**LIMESTONE**; **CALCIUM CARBONATE** **LT-UNK** **PORTLAND CEMENT** **LT-P1** | **END** | **CAN WATER** **BM-4** **METAKAOLIN** **NoGS** | **CAN** | **RES SILICA FUME** **LT-UNK**]

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

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

No residuals and impurities are present above the declared inventory threshold, hence these were not reported on the HPD as indicated in the Emerging Best Practices, Section 2.2.1.5 Residuals/Impurities. Materials or substances representing more than 99.9% of the product weight meet 1,000 ppm threshold and were characterized, screened and identified. This product contains substances that may be considered as geological materials, however, guidelines for Special Conditions are still under development.

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: Not Applicable

VOC content: Not Applicable

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2018-07-10

PUBLISHED DATE: 2018-07-10

EXPIRY DATE: 2021-07-10



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

C1-151

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals and impurities are present above the declared inventory threshold, hence these were not reported on the HPD as indicated in Emerging Best Practices, Section 2.2.1.5 Residuals/Impurities.

OTHER PRODUCT NOTES: None

LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

#: 75.3800 GS: LT-UNK RC: None NANO: No ROLE: Fine and coarse aggregate

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Substance name and identifier disclosed. Considered as Geological Material.

PORTLAND CEMENT

ID: 65997-15-1

#: 14.9500 GS: LT-P1 RC: None NANO: No ROLE: Binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Substance name and identifier disclosed.

WATER

ID: 7732-18-5

#: 6.3800 GS: BM-4 RC: None NANO: No ROLE: Base

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: None

METAKAOLINID: **15123-81-6**%: **1.8200** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

Japan - GHS

Carcinogenicity - Category 1A

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Screening of substances within the material was conducted against the Pharos Chemical and Material Library considering hazards listed in the HPD Priority List.

SILICA FUMEID: **69012-64-2**%: **1.4600** GS: **LT-UNK** RC: **PreC** NANO: **No** ROLE: **Binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Silica fume is a by-product from the manufacture of silicon or ferro-silicon metal. Silica fume is considered as post-industrial recycled content, also known as pre-consumer recycled content.

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

Not Applicable

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2018-07-03**

EXPIRY DATE:

CERTIFIER OR LAB: **NA**

APPLICABLE FACILITIES: **NA**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

VOC CONTENT

Not Applicable

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2018-07-03**

EXPIRY DATE:

CERTIFIER OR LAB: **NA**

APPLICABLE FACILITIES: **NA**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **Mix C1-151 has a VOC (Volatile Organic Compound) content of 0 g/L or 0 lb/gal, hence meets LEED v4 Credit "Low Emitting Materials". VOC statement does not expire unless a change of formulation has been made.**

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.

MASTER BUILDERS SOLUTIONS

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Through the Master Builders Solutions brand, BASF provides the widest range of high-quality admixtures to improve the placing, pumping, finishing, appearance and consistency of concrete; every type of admixture used to provide customized and optimizing concrete mixture proportions for the best balance, strength, durability and sustainability for concrete.

Section 5: General Notes

This HPD was checked against the LEED Pre-Check Indicator and demonstrates compliance with Option 1 of the LEED v4 credit "Building Product Disclosure and Optimization – Material Ingredients". This HPD was prepared by Consultoría SPECS.



MANUFACTURER INFORMATION

MANUFACTURER: **Concretos Cruz Azul**
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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.