

CLASSIFICATION: 04 22 00

PRODUCT DESCRIPTION: Architectural concrete masonry units (CMU) are fire-rated, pre-finished structural concrete block complying with ASTM C-90 and are integrally colored with one of more faces providing various textures including split, ground/polished, matt, or shot-blasted. They are used to build structural masonry walls that provide both structure and finish. They can be used in interior or exterior applications. Concrete masonry units are installed with mortar which is not covered by this HPD.

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

All Substances Above the Threshold Indicated Are:

Characterized Yes Ex/SC Yes No

% weight and role provided for all substances except SC substances characterized according to SC guidance.

Screened Yes Ex/SC Yes No

All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.

Identified Yes Ex/SC Yes No

All substances disclosed by Name (Specific or Generic) and Identifier except SC substances identified according to SC 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

ARCHITECTURAL CMU | SC:SAND Not Screened PORTLAND CEMENT LT-P1 | END | CAN SC:STONE AGGREGATE Not Screened WATER BM-4]

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:

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.

Special conditions applied: Geological Material.

[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.

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: VOC emissions

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: 2020-03-31

PUBLISHED DATE: 2020-03-31

EXPIRY DATE: 2023-03-31



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 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

ARCHITECTURAL CMU

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Concrete Masonry Units are considered a Common Product as listed in the Quartz Project Database. Residuals and Impurities were considered based on Quartz Project Database. No Residuals or Impurities are expected to be present at or above Content Inventory Threshold that return a GreenScreen score of BM-1, LT-1, LT-P1 or NoGS.

OTHER PRODUCT NOTES: Admixtures may also be included in this product but occur in percentages below 1000 ppm by weight, and so are not included in this HPD.

The variation in content beyond 10% for some substances in this HPD is principally due to geographical or supply chain differences that do not affect the identification or description of the product. Publishing multiple HPDs would likely be confusing to HPD users.

SC:SAND

ID: SC:GeoMat

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-03-31

#: 60.00 - 75.00

GS: Not Screened

RC: None

NANO: No

ROLE: Sand when combined with other aggregates and Portland cement gives shape and a tight finish to the CMU.

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCGeoMats/2018-02-23

Origin: USA, North Carolina

Typical Composition: sand

Potential presence of toxic metals: unknown

Presence of Radioactive Elements: unknown

Sand may be natural sand or manufactured sand.

PORTLAND CEMENT

ID: 65997-15-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-03-31

#: 10.00 - 15.00

GS: LT-P1

RC: None

NANO: No

ROLE: binder that provides strength to the unit

HAZARD TYPE	AGENCY AND LIST TITLES	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: The percentage of Portland cement varies depending upon the gradation of the materials in the mix.

SC:STONE AGGREGATE

ID: **SC:GeoMat**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-03-31**

%: **10.00 - 20.00** GS: **Not Screened** RC: **None** NANO: **No** ROLE: **Stone aggregate provides structure and strength to the unit.**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening not performed		

SUBSTANCE NOTES:

Version: SCGeoMats/2018-02-23

Origin: USA, North Carolina

Typical Composition: Typically limestone or granite

Potential presence of toxic metals: unknown

Presence of Radioactive Elements: unknown

The percentage of stone aggregate varies depending upon the desired finish of the CMU, as well as the geologic materials available.

WATER

ID: **7732-18-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-03-31**

%: **5.00 - 10.00** GS: **BM-4** RC: **None** NANO: **No** ROLE: **Water reacts with Portland cement and other ingredients to form hardened concrete.**

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

SUBSTANCE NOTES: The percentage of water varies depending upon the percentages and properties of the other substances used.

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

VOC emissions

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2020-**

EXPIRY DATE:

CERTIFIER OR LAB: **self**

APPLICABLE FACILITIES: **All. This product has not been certified because it is an Inherently nonemitting source per LEED®.**

02-20

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **This product has not been certified because it is an Inherently nonemitting source per LEED®.**

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.

MASONRY MORTAR

HPD URL: **no HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Most concrete masonry units are installed by laying (joining) units with masonry mortar. Masonry mortar is typically manufactured and provided by another company. The type and composition of masonry mortar varies.

MASONRY GROUT

HPD URL: **no HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Concrete masonry units are sometimes filled with masonry grout to provide structural strength. The composition of masonry grout varies. Masonry grout is typically manufactured and provided by another company.

Section 5: General Notes

This HPD covers a range of products classified as Architectural CMU manufactured at plants located in Asheville, NC and Morrisville, NC, and marketed and sold by ADAMS, an Oldcastle Company. All are functionally equivalent, covered by the same ASTM C-90 specification, and have the same basic composition, with variations in percentages of substances due to variations in characteristics and supply of the geologic materials. The variation in content beyond 10% for some substances in this HPD is principally due to geographical or supply chain differences that do not affect the identification or description of the product. Publishing multiple HPDs would likely be confusing to HPD users. Ranges are also used for proprietary purposes.



MANUFACTURER INFORMATION

MANUFACTURER: **Oldcastle**

ADDRESS: **333 N. Greene St**

Greensboro NC 27401, USA

WEBSITE: **Echelonmasonry.com**

CONTACT NAME: **Robert Carmody**

TITLE: **Sales Manager**

PHONE: **919-467-2218**

EMAIL: **robert.carmody@oldcastle.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 (insufficient 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.