

HPD UNIQUE IDENTIFIER: 24217

CLASSIFICATION: 04 72 00 Cast Stone Masonry

PRODUCT DESCRIPTION: Architectural cast stone - VDT manufactured by Cast Stone Systems is a refined zero slump architectural concrete building unit manufactured to simulate natural cut stone, used in unit masonry applications as per ASTM C1364.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold level	Residuals/Impurities	<i>All Substances Above the Threshold Indicated Are:</i>
<input type="radio"/> Nested Materials Method	<input type="radio"/> 100 ppm	<input type="radio"/> Considered	Characterized <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No
<input checked="" type="radio"/> Basic Method	<input checked="" type="radio"/> 1,000 ppm	<input checked="" type="radio"/> Partially Considered	<i>% weight and role provided for all substances except SC substances characterized according to SC guidance.</i>
Threshold Disclosed Per	<input type="radio"/> Per GHS SDS	<input type="radio"/> Not Considered	Screened <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No
<input type="radio"/> Material	<input type="radio"/> Other	Explanation(s) provided for Residuals/Impurities?	<i>All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.</i>
<input checked="" type="radio"/> Product		<input checked="" type="radio"/> Yes <input type="radio"/> No	Identified <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No
			<i>All substances disclosed by Name (Specific or Generic) and Identifier except SC substances identified according to SC guidance.</i>

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 CAST STONE - VDT [SC:SC: SAND Not Screened
PORTLAND CEMENT LT-P1 | CAN | END 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: [GeologicMaterial].

[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: Inherently non-emitting source per LEED

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified? <input type="radio"/> Yes <input checked="" type="radio"/> No	PREPARER: Self-Prepared VERIFIER: VERIFICATION #:	SCREENING DATE: 2021-03-10 PUBLISHED DATE: 2021-03-29 EXPIRY DATE: 2024-03-10
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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

ARCHITECTURAL CAST STONE - VDT

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Partially

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered based on process chemistry via Quartz Project Database using information provided for concrete masonry units. Architectural cast stone is composed of essentially the same ingredients as concrete masonry units. 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: This product may also contain pigments and admixtures in quantities below the Content Inventory Threshold and are only noted here for completeness in disclosure.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **Not Screened**%: **50.0000 - 75.0000** GS: **Not Screened** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCGeoMats/2019-06-20

Origin: USA, North Carolina

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. Percent of substance varies based on specifications for the project. Exact percentage is withheld to protect proprietary mix design.

PORTLAND CEMENT

ID: 65997-15-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-03-10 12:50:25**%: **15.0000 - 35.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

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

END TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

SUBSTANCE NOTES: Percent of substance varies based on specifications for the project. Exact percentage is withheld to protect proprietary mix design.

WATER

ID: 7732-18-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-03-10 12:59:01**%: **5.0000 - 15.0000** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Activator**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Percent of substance varies based on specifications for the project. Exact percentage is withheld to protect proprietary mix design.

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

Inherently non-emitting source per LEED

CERTIFYING PARTY: Self-declared

APPLICABLE FACILITIES: all

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

ISSUE DATE: 2021-03-10 EXPIRY DATE:

CERTIFIER OR LAB: inherently non-emitting 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: https://hpdrepository.hpd-collaborative.org/repository/HPDs/116_Bulk_Mortar_Type_N.pdf

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Architectural cast stone - VDT units may sometimes be set in masonry mortar. The listed masonry mortar HPD is an EXAMPLE of one type of masonry mortar that MAY be used in conjunction with Architectural Cast Stone - VDT. The reference to this masonry mortar is not an endorsement of this product and may not be appropriate for use with Architectural Cast Stone - VDT.

Section 5: General Notes

The percentages of substances listed in this HPD vary based on specifications for the project. Exact percentages are withheld to protect proprietary mix design.

MANUFACTURER INFORMATION

MANUFACTURER: Cast Stone Systems Inc
ADDRESS: 532 N Main Street
 Warrenton NC 27589, USA
WEBSITE: www.caststonesystems.com

CONTACT NAME: Ted Echols
TITLE: Sales Director
PHONE: 252-257-1599
EMAIL: tedechols@caststonesystems.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK 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.)
BM-2 Benchmark 2 (use but search for safer substitutes)	
BM-1 Benchmark 1 (avoid - chemical of high concern)	
BM-U Benchmark Unspecified (due to insufficient data)	
LT-P1 List Translator Possible 1 (Possible Benchmark-1)	NoGS 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.