

**Name** Ernest Maier Block, Brick, and Hardscapes with CarbonCure Medium Weight Concrete Masonry Unit



**Product ID** Medium Weight CMU **Classification** 04 20 00.00 Masonry (concrete block/brick): Unit Masonry

**Website** www.emcoblock.com

**Manufacturer** CarbonCure **Contact Name** Ed Weinmann  
**Address** by Ernest Maier **Title** Architectural Products Specialist  
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Bladensburg, MD 20710 **Email** Ed@emcoblock.com

**Description** This HPD applies to all configurations of Ernest Maier Medium Weight Concrete Masonry Unit with CarbonCure™. The CarbonCure™ process incorporates waste carbon dioxide sourced from local smokestacks into the concrete during the manufacturing process, where it becomes chemically converted into solid calcium carbonate (limestone) embedded throughout the concrete block.

**Release Date** 2015-01-09  Self-declared  
**Expiry Date** 2018-01-09  Second Party **Certifier**  
**HPD URL** <https://tool.hpdcollaborative.org/uploads/files/hpds/144/2592-20150109161105.pdf>  Third Party **Certificate #**

## SUMMARY DISCLOSURE

The content of this product was assessed for health hazard warnings as required using Pharos

### Residuals Disclosure

- Measured 100 ppm (ideal)
- Measured 1000 ppm
- Predicted by process chemistry
- As per MSDS (1,000 & 10,000 ppm)
- Not disclosed
- Other

### Full Disclosure of Intentional Ingredients

Yes  No

### Full Disclosure of Known Hazards

Yes  No

### Disclosure Notes

All known intentional ingredients and residuals are disclosed as per the MSDS sheets and other material ingredient reporting forms provided by suppliers. Ingredients have been reported within a range to protect the manufacturer's mix design. All ingredients with potential health hazards for which the manufacturer is aware have been disclosed.

## Contents in Descending Order of Quantity

LIMESTONE; CALCIUM CARBONATE , QUARTZ , Gravel , MAGNESIUM OXIDE , CALCIUM OXIDE , ALUMINUM OXIDE , FERRIC OXIDE , SULFUR TRIOXIDE

### Hazards

- PBT (Persistent Bioaccumulative Toxic)
- Cancer
- Gene Mutation
- Development
- Reproductive
- Endocrine
- Respiratory

### Highest concern GreenScreen score - List Translator Benchmark 1

- Neurotoxicity
- Mammal
- Skin or Eye
- Aquatic toxicity
- Land toxicity
- Physical hazard
- Global warming
- Ozone depletion
- Multiple
- Unknown

## Total VOC Content

**Material (g/L)** N/A **Does the product contain exempt VOCs?**  N/A  Yes  No  
**Regulatory (g/L)** N/A **Are there VOC-free tints available?**  N/A  Yes  No

## Notes

## Certifications + Compliance

**VOC Emissions** Not tested **VOC Content** N/A

The HPD Standard is solely a declaration of product content and direct health hazards associated with exposure to its individual contents. It is not a full assessment of environmental impacts from the life cycle of this product. It is not an assessment of risks associated with actual use of the product. It does not address the potential health impacts of substances used or created during manufacture that do not appear in the final product as residuals, nor substances created during combustion or other degradation processes.

This Health Product Declaration was generated following the requirements of the noted Standard version and is valid for a total of three years after date of issue or three months after a substantive change of product contents occurs. Users should verify that this Health Product Declaration is compliant with the most current version of the HPD Standard. Accuracy of claims made in this Health Product Declaration is the sole responsibility of the listed manufacturer and certifier (if applicable). The HPD Collaborative does not warrant any claim made herein, explicit or implicit. The HPD Standard is an “open standard” developed and managed by the HPD Collaborative, a nonprofit organization. For more information, visit [hpdcollaborative.org](http://hpdcollaborative.org).

## CONTENT IN DESCENDING ORDER OF QUANTITY

All ingredients must be assessed for health warnings against Priority Hazard Lists, regardless of disclosure level.

Priority Hazard Lists and information on the GreenScreen Benchmarks can be found at [www.hpdcollaborative.org/hazardlists](http://www.hpdcollaborative.org/hazardlists).

**GS:** GreenScreen Benchmark; **RC:** Recycled Content, **PC:** Post Consumer, **PI:** Post Industrial (Pre-consumer), **BO:** Both; **Nano:** comprised of nanoscale particles or nanotechnology

Name	CAS RN	% weight	GS	RC	Nano	Role
<b>Hazard A</b>	<b>Warning A</b>					
<b>Hazard B</b>	<b>Warning B</b>					
<b>Hazard C</b>	<b>Warning C</b>					
<b>Hazard D</b>	<b>Warning D</b>					
<b>Hazard E</b>	<b>Warning E</b>					
<b>Notes</b>						
<b>LIMESTONE; CALCIUM CARBONATE</b>	1317-65-3	40 - 50 %	LT-U	N	N	Aggregate
None found	No warnings found on HPD Priority lists					
A portion of the calcium carbonate present in this concrete product comes from carbon dioxide gas captured from post-industrial emitters. The carbon dioxide gas has been chemically converted into solid calcium carbonate through the use of CarbonCure's proprietary technology.						
<b>QUARTZ</b>	14808-60-7	20 - 30 %	LT-1	N	N	Binder and Aggregate
<b>CANCER</b>	IARC: Group 1: Agent is carcinogenic to humans - inhaled from occupational sources (also in NIOSH-C, MAK, NTP-RoC, Prop 65)					
Quartz is a naturally occurring component of sand, as well as a component of cement. It is unavoidable in concrete products. Hazards are applicable to individuals exposed to high quantities of quartz in dust particle form, which may occur throughout manufacturing or to a mason cutting the concrete block. Quartz is not hazardous in its end state embedded within the final concrete product.						
<b>Gravel</b>	Not registered	20 - 30 %		N	N	Aggregate
None found	No warnings found on HPD Priority lists					
<b>MAGNESIUM OXIDE</b>	1309-48-4	1 - 10 %	LT-U	N	N	Binder
None found	No warnings found on HPD Priority lists					
<b>CALCIUM OXIDE</b>	1305-78-8	1 - 10 %	LT-U	N	N	Binder
None found	No warnings found on HPD Priority lists					

<b>ALUMINUM OXIDE</b>	1344-28-1	0.1 - 1 %	LT-U	N	N	Binder
RESPIRATORY	AOEC: Asthmagen (ARs) - sensitizer-induced - inhalable forms only					
Hazards are applicable to individuals exposed to high quantities of Aluminum Oxide in dust particle form, which may occur throughout manufacturing or to a mason cutting the concrete block. Aluminum Oxide is not hazardous in its end state embedded within the final concrete product.						
<b>FERRIC OXIDE</b>	1309-37-1	0.1 - 1 %	2	N	N	Binder
CANCER	MAK: Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification					
<b>SULFUR TRIOXIDE</b>	7446-11-9	0.01 - 0.1 %	LT-U	N	N	Binder
None found	No warnings found on HPD Priority lists					

**CERTIFICATIONS AND COMPLIANCE**

**Certifying Party** = First: Manufacturer's self-declaration; Second: Verification by trade association or other interested party; Third: Verification by independent certifier (ideal).

**Applicable facilities** = Manufacturing sites to which testing applies.

Type	Standard or Certification			Certifier or Laboratory
	Certifying Party	Issue Date	Expiry Date	Certificate URL
	Applicable Facilities			
	Notes			
VOC Emissions	Not tested			
VOC Content	N/A			
Recycled Content	Not tested			
Other				

**ACCESSORY MATERIALS**

This section is for additional products required by warranty or recommended by the manufacturer for installation (such as adhesives, fasteners, or factory coatings) or for maintenance, cleaning, or operations. Refer to Health Product Declarations, published separately, for a complete view of these products.

Note: This declaration is not intended to address hazards of the installation process.

Required or Recommended Product	URL for Companion Health Product Declaration
<b>Condition when required or recommended and/or other notes</b>	

**NOTES**

This HPD declares a BM1 category health hazard from quartz, which naturally exists in concrete aggregates and is present in all concrete products. All hazards stated are risks associated with basic materials; these hazards are not applicable to end users of the final product (possible exception: mason exposed to dust particles by cutting concrete). This product has no VOC emissions.