

Name Permacon with CarbonCure Light Weight CMU



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

Website www.permaconpro.ca

Manufacturer CarbonCure by Permacon 8375 5 Side Road Milton, ON L9T 2X7 Canada Contact Name Corey McQuillen Title Sales Representative Phone (519) 572-4626 Email cmcquillen@permacon.ca

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

Release Date 2015-02-10 Expiry Date 2018-02-10 HPD URL https://tool.hpdcollaborative.org/uploads/files/hpds/144/2926-20150210151145.pdf Self-declared Second Party Third Party Certifier Certificate #

SUMMARY DISCLOSURE

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

Residuals Disclosure Full Disclosure of Intentional Ingredients Full Disclosure of Known Hazards Disclosure Notes As per MSDS (1,000 & 10,000 ppm) Measured 100 ppm (ideal) Measured 1000 ppm Predicted by process chemistry Not disclosed Other Yes No Yes No 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

BLAST FURNACE SLAG , CALCIUM OXIDE , Gravel , MAGNESIUM OXIDE , QUARTZ , LIMESTONE; CALCIUM CARBONATE , SULFUR TRIOXIDE , CALCIUM SULFATE, 1_2-HYDRATE, POWDER , FERRIC OXIDE , ALUMINUM OXIDE , WATER , SULFUR , SODIUM OXIDE , Titanium dioxide , dipotassium oxide , Polyethylene glycol mono(branched p-nonylphenyl) ether , METHANOL

Hazards Highest concern GreenScreen score - List Translator Benchmark 1 PBT (Persistent Bioaccumulative Toxic) Cancer Gene Mutation Development Reproductive Endocrine Respiratory 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 Regulatory (g/L) N/A Does the product contain exempt VOCs? Are there VOC-free tints available? N/A Yes No 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.

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.

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
Hazard A	Warning A					
Hazard B	Warning B					
Hazard C	Warning C					
Hazard D	Warning D					
Hazard E	Warning E					
Notes						
BLAST FURNACE SLAG	65996-69-2	30 - 40 %	LT-U	N	N	Binder and Aggregate
None found	No warnings found on HPD Priority lists					
CALCIUM OXIDE	1305-78-8	30 - 40 %	LT-U	N	N	Binder and Aggregate
None found	No warnings found on HPD Priority lists					
Gravel	Not registered	10 - 20 %		N	N	Aggregate
None found	No warnings found on HPD Priority lists					
MAGNESIUM OXIDE	1309-48-4	1 - 10 %	LT-U	N	N	Binder and Aggregate
None found	No warnings found on HPD Priority lists					
QUARTZ	14808-60-7	1 - 10 %	LT-1	N	N	Binder and Aggregate
CANCER	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.						

LIMESTONE; CALCIUM CARBONATE	1317-65-3	0.1 - 1 %	LT-U	N	N	Binder
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.						
SULFUR TRIOXIDE	7446-11-9	0.1 - 1 %	LT-U	N	N	Binder
None found	No warnings found on HPD Priority lists					
CALCIUM SULFATE, 1_2-HYDRATE, POWDER	7778-18-9	0.1 - 1 %	LT-U	N	N	Binder
None found	No warnings found on HPD Priority lists					
FERRIC OXIDE	1309-37-1	0.1 - 1 %	2	N	N	Binder
CANCER	MAK: Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification					
ALUMINUM OXIDE	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.						
WATER	7732-18-5	0.01 - 0.1 %	4	N	N	Admixture
None found	No warnings found on HPD Priority lists					
SULFUR	7704-34-9	0.01 - 0.1 %	LT-U	N	N	Binder
SKIN IRRITATION	EU R-Phrases: R38: Irritating to skin. (also in EU H-Statements)					
SODIUM OXIDE	1313-59-3	0.01 - 0.1 %	LT-U	N	N	Binder
None found	No warnings found on HPD Priority lists					
Titanium dioxide	13463-67-7	0.01 - 0.1 %	LT-1	N	N	Binder
CANCER	NIOSH-C: Occupational carcinogen (also in Prop 65, IARC, MAK)					
Hazards are applicable to individuals exposed to high quantities of titanium dioxide in dust particle form, which may occur throughout manufacturing or to a mason cutting the concrete block. Titanium dioxide is not hazardous in its end state embedded within the final concrete product.						
dipotassium oxide	12136-45-7	0.01 - 0.1 %	LT-U	N	N	Binder
None found	No warnings found on HPD Priority lists					

Polyethylene glycol mono(branched p-nonylphenyl) ether	127087-87-0	0 - 0.01 %	LT-P1	N	N	Admixture
ENDOCRINE	SIN: Equivalent concern, including endocrine disruption - Sin List 1.0 (also in EU ED, OSPAR)					
MULTIPLE	Vw/wS: Class 2 Hazard to Waters (also in EPA Action)					
PBT	OSPAR: PBT - Chemical for Priority Action					
DEVELOPMENTAL	EPA Action: Developmental Effects					
REPRODUCTIVE	EPA Action: Reproductive effects					
CHRON AQUATIC	EPA Action: Highly toxic to aquatic organisms					
METHANOL	67-56-1	0 %	LT-1	N	N	Admixture
DEVELOPMENTAL	NTP-OHAaT: A-Clear evidence of adverse developmental toxicant effects (also in Prop 65)					
MAMMALIAN	EU R-Phrases: R25: Toxic if swallowed. (also in EU H-Statements)					
ORGAN TOXICANT	EU R-Phrases: R39: Danger of very serious irreversible effects. (also in EU H-Statements)					
FLAMMABLE	EU H-Statements: H225 Highly flammable liquid and vapour.					

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
Condition when required or recommended and/or other notes	

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.