

CLASSIFICATION: 04 22 23

created via: HPDC Online Builder

PRODUCT DESCRIPTION: THIS HPD COVERS PERMACON'S LIGHTWEIGHT BLOCK WITH AND WITHOUT GLASS POWDER. MORE SPECIFICALLY THIS HPD CONCERNS LIGHTWEIGHT BLOCKS MADE AT PERMACON'S MILTON PLANT.

**Section 1: Summary**

**CONTENT INVENTORY**

- Threshold per material
- 100 ppm
  - 1,000 ppm
  - Per GHS SDS
  - Per OSHA MSDS
  - Other

- Residuals and impurities considered in 5 of 5 materials
- see Section 2: Material Notes
  - see Section 5: General Notes

Based on the selected Content Inventory Threshold:

Characterized.....	<input checked="" type="radio"/>	<input type="radio"/>
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances disclosed by Name (Specific or Generic) and Identifier?	Yes	No

**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.

Number of Greenscreen BM-4/BM3 contents..... 0  
 Contents highest concern GreenScreen Benchmark or List translator Score..... LT-1  
 Nanomaterial..... No

**MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY  
 GREENSCREEN SCORE | HAZARD TYPE**

AGGREGATES #3 [ BLAST FURNACE SLAG **LT-UNK** LIMESTONE;  
 CALCIUM CARBONATE **LT-UNK** ] CEMENT TYPE HE [ PORTLAND  
 CEMENT **LT-UNK** | CAN CALCIUM OXIDE **LT-UNK** QUARTZ **LT-1** | CAN  
 CHROMATE **UNK** NICKEL, OTHER INORGANIC COMPOUNDS **UNK** ]  
 GLASS POWDER [ SILICA, FUSED **LT-1** | CAN ] SLAG CEMENT [  
 BLAST FURNACE SLAG **LT-UNK** QUARTZ **LT-1** | CAN ] ADMIXTURE #1 [  
 POLYETHYLENE GLYCOL MONO(BRANCHED P-NONYLPHENYL) ETHER  
**LT-1** | END | PBT | MUL | REP | AQU | DEV ]

**INVENTORY AND SCREENING NOTES:**

HPD has been built as a Material Content Inventory Display. Therefore, inventory thresholds are related to the composition of each material and not the final product. Permacon's products have been screened at a 1,000 ppm level so that all intentional materials and known potential residuals that could have existed in raw materials, at that level, have been disclosed.

**VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

VOC Content data is not applicable for this product category.

**CERTIFICATIONS AND COMPLIANCE**

No certifications have been added to this HPD.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: December 1, 2016	EXPIRY DATE*: December 1, 2019
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: February 17, 2017	* or within 3 months of significant change in product contents

\*See HPDC website for details



## Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: [www.hpd-collaborative.org](http://www.hpd-collaborative.org) and [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org).

### AGGREGATES #3

#: 84.5400

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: Yes

Material Notes: Aggregates are composed of lightweight aggregates (slag) and block screenings

#### BLAST FURNACE SLAG

ID: 65996-69-2

#: 64.6400

GS: LT-UNK

RC: None

NANO: NO

ROLE: inert granular materials

#### HAZARDS:

#### AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Lightweight aggregates

#### LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

#: 19.8900

GS: LT-UNK

RC: None

NANO: NO

ROLE: inert granular materials

#### HAZARDS:

#### AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Approximation for block (limestone) screenings

### CEMENT TYPE HE

#: 11.4400

HPD URL:

Inventory Threshold: 1000 ppm Residuals Considered: Yes

Material Notes: Cementing material

#### PORTLAND CEMENT

ID: 65997-15-1

#: 90.0000 - 100.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Binding ingredient

#### HAZARDS:

#### AGENCY(IES) WITH WARNINGS:

CANCER

MAK

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

SUBSTANCE NOTES: See Material notes

**CALCIUM OXIDE**

ID: 1305-78-8

%: 0.3000 - 3.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Additional ingredient #1
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**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material notes

**QUARTZ**

ID: 14808-60-7

%: 0.1000 - 1.5000	GS: LT-1	RC: None	NANO: NO	ROLE: Additional ingredient #2
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**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
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CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
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CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
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CANCER	IARC	Group 1: Agent is carcinogenic to humans - inhaled from occupational sources
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CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
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CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
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SUBSTANCE NOTES: Crystalline silica

**CHROMATE**

ID: 13907-45-4

%: 0.0000 - 0.1000	GS: UNK	RC: None	NANO: NO	ROLE: Additional ingredient #3
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**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Approximation for Chromate compounds

**NICKEL, OTHER INORGANIC COMPOUNDS**

ID:

%: 0.0000 - 0.1000	GS: UNK	RC: None	NANO: NO	ROLE: Additional ingredient #4
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**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Approximation for Nickel compounds. "Inorganic compounds" was selected as best suited in this context.

**GLASS POWDER****%: 3.9800****HPD URL:**

Inventory Threshold: 1000 ppm

Residuals Considered: Yes

Material Notes: Alternate material to Slag cement. Glass powder is present at 3.98% in lightweight block - Milton with glass powder. Glass powder replaces the original portland cement input.

**SILICA, FUSED**

ID: 60676-86-0

%: 100.0000

GS: LT-1

RC: PostC

NANO: NO

ROLE: Supplementary  
Cementing Material**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

SUBSTANCE NOTES: Approximation for recycled glass transformed into powder.

**SLAG CEMENT****%: 3.9800****HPD URL:**

Inventory Threshold: 1000 ppm

Residuals Considered: Yes

Material Notes: Ground granulated blast-furnace slag. Slag replaces the original portland cement input.

**BLAST FURNACE SLAG**

ID: 65996-69-2

%: 100.0000

GS: LT-UNK

RC: PreC

NANO: NO

ROLE: Supplementary  
Cementing Material**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Manufacturer's statement: Granulated blast-furnace slag is a co-product of the steel industry produced by adding a limestone flux to the ore to remove non-ferrous contaminants. As such, it may contain small quantities of hazardous heavy metals, including trace amounts of chromium, usually in solution in the glass. The ground granulated blast-furnace slag is a vitreous material containing silica, alumina, magnesia and calcium oxides. It also contains a small quantity of iron, sodium, titanium and manganese oxides. The oxides do not actually occur in free form but as complexed silica-based glasses.

**QUARTZ**

ID: 14808-60-7

%: Impurity/Residual

GS: LT-1

RC: None

NANO: NO

ROLE: Impurity/Residual

**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

CANCER

IARC

Group 1 - Agent is Carcinogenic to humans

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 1: Agent is carcinogenic to humans - inhaled from occupational sources
CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
SUBSTANCE NOTES: Crystalline silica		

**ADMIXTURE #1**

Inventory Threshold: Per GHS SDS

**%: 0.0500**

Residuals Considered: Yes

**HPD URL:**

Material Notes: Manufacturer's statement: Mixture of the substances listed below with additional nonhazardous ingredients. Since the admixture is present in the final product at a weight % of less than 0.1%, the information based on the safety data sheet is sufficient to meet the HPD Open Standard requirements.

**POLYETHYLENE GLYCOL MONO(BRANCHED P-NONYLPHENYL) ETHER**

ID: 127087-87-0

%: 10.0000 - 20.0000

GS: LT-1

RC: None

NANO: NO

ROLE: Admixture ingredient

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

ENDOCRINE	EU - Priority Endocrine Disrupters	Category 1 - In vivo evidence of Endocrine Disruption Activity
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
ENDOCRINE	OSPAR - Priority PBTs & EDs & equivalent concern	Endocrine Disruptor - Chemical for Priority Action
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - Action Plan in development
ENDOCRINE	ChemSec - SIN List	Endocrine Disruption
REPRODUCTIVE	US EPA - PPT Chemical Action Plans	Reproductive effects
CHRON AQUATIC	US EPA - PPT Chemical Action Plans	Highly toxic to aquatic organisms
DEVELOPMENTAL	US EPA - PPT Chemical Action Plans	Developmental Effects

SUBSTANCE NOTES: Hazardous ingredient disclosed in the admixture SDS



**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



## 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.



## Section 5: General Notes



## MANUFACTURER INFORMATION

MANUFACTURER: Permacon

CONTACT NAME: Blaise Perron

ADDRESS: 8145 rue Bombardier  
Anjou, QC H1J 1A5  
Canada

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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) BM-2  
Benchmark 2 (use but search for safer substitutes)

**LT-1** List Translator Likely Benchmark 1

**BM-1** Benchmark 1 (avoid - chemical of high concern)

**LT-UNK** List Translator Benchmark Unknown (insufficient  
information from List Translator lists to benchmark)

**BM-U** Benchmark Unspecified (insufficient data to benchmark)

**UNK** 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

**Nano** Composed of nanoscale particles or nanotechnology

### Declaration Level

**Self-declared** Manufacturer's self-declaration (First Party)

**Independent Lab** Manufacturer's self-declaration using results from an independent lab

**Second Party** Verification by trade association or other interested party

**Third Party** Verification by independent certifier

**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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.