Section 1: Summary

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
- Other

Residuals/Impurities
- Considered in 5 of 10 Materials
- Yes Ex/SC
- Yes
- No

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
--- | --- | --- | --- | ---
SC:GEOMAT:AGGREGATESALTERNATIVE#1 | SC:SILICA Not Screened | | | SC:GRANITE GNEISS Not Screened
SC:GEOMAT:AGGREGATESALTERNATIVE#4 | SC:SILICA Not Screened | | | SC:ALUMINUM TAILINGS Not Screened
PORTLAND CEMENT | PORTLAND CEMENT LT-P1 | END | CAN | CAN CALCIUM OXIDE LT-P1 | QUARTZ LT-1 | CAN PHOSPHOGYPSUM LT-UNK | WHITE PORTLAND CEMENT | PORTLAND CEMENT LT-P1 | END | CAN QUARTZ LT-1 | CAN CALCIUM OXIDE LT-P1 | ADMIXTURE [ WATER BM-4 | CALCIUM STEARATE LT-UNK POLYETHYLENE GLYCOL MONO(BRANCHED P-NONYLPHENYL) ETHER BM-1tp | END | MUL | REP | AQU | DEV TRIETHANOLAMINE LT-P1 | RES | END | GLASS POWDER [ GLASS / MINERAL FIBER (POST-CONSUMER RECYCLED) LT-UNK | COLOR PIGMENTS [ IRON OXIDE BM-1 | CAN FERRIC OXIDE BM-1 | CAN FERRIC OXIDE, YELLOW LT-UNK

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
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.

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. Permacon’s Noble Block contains special condition materials, geological materials, which have been reported accordingly.

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - N/A
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Yes</td>
<td>VERIFIER:</td>
<td>PUBLISHED DATE: 2020-10-19</td>
</tr>
<tr>
<td>☐ No</td>
<td>VERIFICATION #:</td>
<td>EXPIRY DATE: 2023-10-19</td>
</tr>
</tbody>
</table>
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 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

### SC:GEOMAT:AGGREGATESALTERNATIVE#1

<table>
<thead>
<tr>
<th>%: 84.6000 - 88.9000</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT THRESHOLD: 1000 ppm</td>
</tr>
<tr>
<td>RESIDUALS AND IMPURITIES CONSIDERED: No</td>
</tr>
<tr>
<td>MATERIAL TYPE: Geologically Derived Material</td>
</tr>
</tbody>
</table>

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities reported by the manufacturers; however, naturally occurring elements can be present.

OTHER MATERIAL NOTES: SpecialConditionApplied:GeologicalMaterial --- Aggregates are composed of asphalt sand and block screenings. A weight percentage is used to cover multiples variations of the same product. Various combinations of aggregate materials from different quarries are used to produce the different colors of Noble blocks; hence the alternative aggregates.

### SC:SILICA

<table>
<thead>
<tr>
<th>%: 82.4000</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT THRESHOLD: 1000 ppm</td>
</tr>
<tr>
<td>RESIDUALS AND IMPURITIES CONSIDERED: No</td>
</tr>
<tr>
<td>MATERIAL TYPE: Geologically Derived Material</td>
</tr>
</tbody>
</table>

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-10-19
GS: Not Screened
RC: None
NANO: No
SUBSTANCE ROLE: Filler

HAZARD TYPE

<table>
<thead>
<tr>
<th>AGENCY AND LIST TITLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARNINGS</td>
</tr>
</tbody>
</table>

Hazard Screening not performed
SUBSTANCE NOTES:
Version: SCGeoMats/2019-06-20
Origin: Canada (Province of Quebec)
Typical Composition: Natural silica sand
Potential presence of toxic metals: None.
Presence of Radioactive Elements: None.
See material notes.

### SC:GRANITE GNEISS

<table>
<thead>
<tr>
<th>%: 17.6000</th>
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</thead>
<tbody>
<tr>
<td>PRODUCT THRESHOLD: 1000 ppm</td>
</tr>
<tr>
<td>RESIDUALS AND IMPURITIES CONSIDERED: No</td>
</tr>
<tr>
<td>MATERIAL TYPE: Geologically Derived Material</td>
</tr>
</tbody>
</table>

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-10-19
GS: Not Screened
RC: None
NANO: No
SUBSTANCE ROLE: Filler

HAZARD TYPE

<table>
<thead>
<tr>
<th>AGENCY AND LIST TITLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARNINGS</td>
</tr>
</tbody>
</table>

Hazard Screening not performed
SUBSTANCE NOTES:
Version: SCGeoMats/2019-06-20
Origin: Canada (Province of Quebec)
Typical Composition: n/a
Potential presence of toxic metals: None known.
Presence of Radioactive Elements: None known.
See material notes.
PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities present in this material.

OTHER MATERIAL NOTES: SpecialConditionApplied:GeologicalMaterial --- Aggregates are composed of sand and screenings. A weight percentage is used to cover multiples variations of the same product. Various combination of aggregate materials from different quarries are used to produce the different colors of Noble blocks; hence the alternative aggregates.

SC:SILICA

ID: SC:GeoMat

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-10-19

%: 100.0000

GS: Not Screened

RC: None

NANO: No

SUBSTANCE ROLE: Filler

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

SUBSTANCE NOTES:

Version: SCGeoMats/2019-06-20
Origin: Canada (province of Quebec)
Typical Composition: Silica
Potential presence of toxic metals: None.
Presence of Radioactive Elements: None.

See material notes.

SC:GEOMAT:AGGREGATES

%: 84.6000 - 88.9000

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities reported by the manufacturers; however, naturally occurring elements can be present.

OTHER MATERIAL NOTES: SpecialConditionApplied:GeologicalMaterial --- Aggregates are crushed stones and sand. A weight percentage is used to cover multiples variations of the same product. Various combination of aggregate materials from different quarries are used to produce the different colors of Noble blocks; hence the alternative aggregates.
**SC:SILICA**

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-19

| %: 65.9000 | 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: Canada (Province of Quebec)  
Typical Composition: Natural sand  
Potential presence of toxic metals: None known.  
Presence of Radioactive Elements: None known.

See material notes.

**SC:LIMESTONE**

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-19

| %: 34.1000 | 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: Canada (Province of Quebec)  
Typical Composition: Limestone, calcite and black shale  
Potential presence of toxic metals: None known.  
Presence of Radioactive Elements: None known.

Limestone CAS number is 1317-65-3.  
Calcite CAS number is 13397-26-7.  
Shale, expanded, aggregates, CAS number is 68334-37-2.

**SC:GEOMAT:AGGREGATEALTERNATIVE#3**

| %: 84.6000 - 88.9000 |

**PRODUCT THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** No  
**MATERIAL TYPE:** Geologically Derived Material

**RESIDUALS AND IMPURITIES NOTES:** No residuals or impurities reported by the manufacturers or above the declaration threshold; however, naturally occurring elements can be present, such as traces of metals.

**OTHER MATERIAL NOTES:** SpecialConditionApplied:GeologicalMaterial --- Aggregates are composed of sand and block screenings.
### SC:SILICA

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-19

<table>
<thead>
<tr>
<th>%: 49.4000</th>
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<td>RC: None</td>
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<td>NANO: No</td>
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<td><strong>SUBSTANCE ROLE:</strong> Filler</td>
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<table>
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<th>HAZARD TYPE</th>
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<th>WARNINGS</th>
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<tbody>
<tr>
<td>Hazard Screening not performed</td>
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</table>

**SUBSTANCE NOTES:**  
Version: SCGeoMats/2019-06-20  
Origin: Canada (Province of Quebec)  
Typical Composition: Silica  
Potential presence of toxic metals: None known.  
Presence of Radioactive Elements: None known.  
See material notes

### SC:CALCIUM CARBONATE

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-19

<table>
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<td>RC: None</td>
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<tr>
<td>NANO: No</td>
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<td><strong>SUBSTANCE ROLE:</strong> Filler</td>
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<table>
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<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Screening not performed</td>
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</tbody>
</table>

**SUBSTANCE NOTES:**  
Version: SCGeoMats/2019-06-20  
Origin: Canada (Province of Ontario)  
Typical Composition: Calcium carbonate (90-100) and silica (10)  
Potential presence of toxic metals: Presence of naturally occurring metals below the declaration threshold (<3 ppm)  
Presence of Radioactive Elements: None known.  
The CAS number for calcium carbonate and silica are 1317-65-3 and 14808-60-7, respectively.

### SC:LIMESTONE

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-19

<table>
<thead>
<tr>
<th>%: 15.7000</th>
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<td>GS: Not Screened</td>
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<tr>
<td>RC: None</td>
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<td>NANO: No</td>
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<td><strong>SUBSTANCE ROLE:</strong> Filler</td>
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<table>
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<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
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</thead>
<tbody>
<tr>
<td>Hazard Screening not performed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:**  
Version: SCGeoMats/2019-06-20  
Origin: Canada (Province of Quebec)  
Typical Composition: Limestone, calcite and shale  
Potential presence of toxic metals: None known.  
Presence of Radioactive Elements: None known.  
See material notes.

### SC:GEOMAT:AGGREGATESALTERNATIVE#4

**%:** 84.6000 - 88.9000

Noble Block - Montreal plant  
hprepository.hpd-collaborative.org

HPD v2.2 created via HPDC Builder Page 6 of 15
**SC: SILICA**

- **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library
- **HAZARD SCREENING DATE:** 2020-10-19
- **%:** 50.0000
- **GS:** Not Screened
- **RC:** None
- **NANO:** No
- **SUBSTANCE ROLE:** Filler

### HAZARD TYPE

- **AGENCY AND LIST TITLES**
- **WARNINGS**

**SUBSTANCE NOTES:**

- **Version:** SCGeoMats/2019-06-20
- **Origin:** Canada (Province of Quebec)
- **Typical Composition:** Silica
- **Potential presence of toxic metals:** None.
- **Presence of Radioactive Elements:** None.

See material notes.

**SC: ALUMINUM TAILINGS**

- **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library
- **HAZARD SCREENING DATE:** 2020-10-19
- **%:** 50.0000
- **GS:** Not Screened
- **RC:** PreC
- **NANO:** No
- **SUBSTANCE ROLE:** Filler

### HAZARD TYPE

- **AGENCY AND LIST TITLES**
- **WARNINGS**

**SUBSTANCE NOTES:**

- **Version:** SCGeoMats/2019-06-20
- **Origin:** Canada (Province of Quebec)
- **Typical Composition:** Albite (0-45%); Anorthite (0-45%); Illeminte (0-8%); Hematite (0-2%); Magnesium alumate (0-2%)
- **Potential presence of toxic metals:** None known.
- **Presence of Radioactive Elements:** None known.

This sand comes from tailings from the aluminium industry.

The CAS number for Albite, Anorthite, Ileminite, Hematite and Magnesium alumina are 12244-10-9, 130254-1, 98072-94-7, 76774-74-8 nad 12068-51-8, respectively.

**PORTLAND CEMENT**

- **%:** 9.9000 - 15.0000
- **PRODUCT THRESHOLD:** 1000 ppm
- **RESIDUALS AND IMPURITIES CONSIDERED:** Yes
- **MATERIAL TYPE:** Geologically Derived Material

**RESIDUALS AND IMPURITIES NOTES:** Chromate nickel compounds can be present in the cement at trace levels, i.e., below the declaration threshold.

**OTHER MATERIAL NOTES:** A weight percentage is used to cover multiples variations of the same product. A portland cement or a white portland cement are used to produce the different colors of Noble blocks; hence the alternative cements. Manufacturer’s statement: Portland cement has a variable composition depending upon the cementitious products produced in the cement kiln. Small amounts of naturally occurring, but potentially harmful, chemical compounds might be detected during chemical analysis. These trace compounds might include free crystalline silica, potassium and sodium compounds; heavy metals including cadmium, chromium, nickel and lead; and organic compounds. Other trace constituents may include calcium oxide (also known as free lime or quick lime).
**PORTLAND CEMENT**

ID: 65997-15-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-10-19

<table>
<thead>
<tr>
<th>%:</th>
<th>90.0000 - 100.0000</th>
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</thead>
<tbody>
<tr>
<td>GS:</td>
<td>LT-P1</td>
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<tr>
<td>RC:</td>
<td>None</td>
</tr>
<tr>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>SUBSTANCE ROLE:</td>
<td>Binder</td>
</tr>
</tbody>
</table>

HAZARD TYPE

ENDOCRINE
TEDX - Potential Endocrine Disruptors
Potential Endocrine Disruptor

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

SUBSTANCE NOTES: See Material notes

**CALCIA OXIDE**

ID: 1305-78-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-10-19

<table>
<thead>
<tr>
<th>%:</th>
<th>0.3000 - 3.0000</th>
</tr>
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<tbody>
<tr>
<td>GS:</td>
<td>LT-P1</td>
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<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>SUBSTANCE ROLE:</td>
<td>Filler</td>
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</tbody>
</table>

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See Material notes

**QUARTZ**

ID: 14808-60-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-10-19

<table>
<thead>
<tr>
<th>%:</th>
<th>0.1000 - 1.5000</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS:</td>
<td>LT-1</td>
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<tr>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>SUBSTANCE ROLE:</td>
<td>Binder</td>
</tr>
</tbody>
</table>

HAZARD TYPE

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

CANCER
GHS - New Zealand
6.7A - Known or presumed human carcinogens

CANCER
GHS - Japan
Carcinogenicity - Category 1A [H350]

CANCER
GHS - Australia
H350i - May cause cancer by inhalation

SUBSTANCE NOTES: Crystalline Silica

**PHOSPHOGYPSUM**

ID: 13397-24-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-10-19

<table>
<thead>
<tr>
<th>%:</th>
<th></th>
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<tbody>
<tr>
<td>GS:</td>
<td></td>
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<tr>
<td>RC:</td>
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</tr>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>SUBSTANCE ROLE:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES: Phosphogypsum
### WHITE PORTLAND CEMENT

**%:** 9.9000 - 15.0000

**PRODUCT THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes  
**MATERIAL TYPE:** Geologically Derived Material

**RESIDUALS AND IMPURITIES NOTES:** Hexavalent chromium can be present in the cement at trace levels, i.e., below the declaration threshold.

**OTHER MATERIAL NOTES:** A weight percentage is used to cover multiples variations of the same product. A portland cement or a white portland cement are used to produce the different colors of Noble blocks; hence the alternative cements.
# PORTLAND CEMENT

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-19

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>SUBSTANCE ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>100.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Binder</td>
</tr>
</tbody>
</table>

**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:** See Material notes

# QUARTZ

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-19

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>SUBSTANCE ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impurity/Residual</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Impurity/Residual</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

**CANCER**
- IARC  
  Group 1 - Agent is Carcinogenic to humans
- US CDC - Occupational Carcinogens  
  Occupational Carcinogen
- CA EPA - Prop 65  
  Carcinogen - specific to chemical form or exposure route
- IARC  
  Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
- US NIH - Report on Carcinogens  
  Known to be Human Carcinogen (respirable size - occupational setting)
- MAK  
  Carcinogen Group 1 - Substances that cause cancer in man
- GHS - New Zealand  
  6.7A - Known or presumed human carcinogens
- GHS - Japan  
  Carcinogenicity - Category 1A [H350]
- GHS - Australia  
  H350i - May cause cancer by inhalation

**SUBSTANCE NOTES:** Crystalline Silica may be contained in the structure of Portland cement.

# CALCIUM OXIDE

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-19

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>SUBSTANCE ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impurity/Residual</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Impurity/Residual</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

None found

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** This substance may be contained in the structure of Portland cement.
### ADMIXTURE

**PRODUCT THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** No  
**MATERIAL TYPE:** Polymeric Material

**RESIDUALS AND IMPURITIES NOTES:** No test were performed to evaluate the presence of residuals in impurities in this material

**OTHER MATERIAL NOTES:** A weight percentage is used to cover multiples variations of the same product.

---

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>ID</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%:</th>
<th>GS</th>
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<th>SUBSTANCE ROLE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
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<tbody>
<tr>
<td>WATER</td>
<td>7732-18-5</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-19</td>
<td>30.0000 - 60.0000</td>
<td>BM-4</td>
<td>None</td>
<td>No</td>
<td>Carrier</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
<tr>
<td>CALCIUM STEARATE</td>
<td>1592-23-0</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-19</td>
<td>25.0000 - 50.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Water resistance</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
<tr>
<td>POLYETHYLENE GLYCOL MONO(BRANCHED P-NONYLPHENYL) ETHER</td>
<td>127087-87-0</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-19</td>
<td>1.0000 - 2.0000</td>
<td>BM-1tp</td>
<td>None</td>
<td>No</td>
<td>Surfactant</td>
<td>Endocrine Disruptor - Chemical for Priority Action, EPA Chemical of Concern - Action Plan published, TSCA Work Plan chemical - Action Plan in development, Endocrine Disruption, Reproductive effects, Highly toxic to aquatic organisms, Developmental Effects, Equivalent Concern - Candidate List</td>
<td></td>
</tr>
<tr>
<td>TRIETHANOLAMINE</td>
<td>102-71-6</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES: See Material notes
<table>
<thead>
<tr>
<th>Substance</th>
<th>%:</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>Substance Role</th>
<th>Agency and List Titles</th>
<th>WARNings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass Powder</td>
<td>0.0000 - 1.5000</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Accelerator</td>
<td>AOEC - Asthmagens</td>
<td>Asthmagen (Rs) - sensitizer-induced</td>
</tr>
<tr>
<td>Endocrine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** See Material notes

---

<table>
<thead>
<tr>
<th>Substance</th>
<th>%:</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>Substance Role</th>
<th>Agency and List Titles</th>
<th>WARNings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass Powder</td>
<td>0.0000 - 1.5000</td>
<td>LT-UNK</td>
<td>PostC</td>
<td>No</td>
<td>Filler</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This substance is made from recycled glass transformed into powder.

---

<table>
<thead>
<tr>
<th>Substance</th>
<th>%:</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>Substance Role</th>
<th>Agency and List Titles</th>
<th>WARNings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Pigments</td>
<td>0.0000 - 0.6000</td>
<td>LT-UNK</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Since the pigment is present in the final product at a weight percentage of 0.6%, the information based on the safety data sheet is sufficient to meet the HPD Open Standard requirements.

**OTHER MATERIAL NOTES:** A weight percentage is used to cover multiples variations of the same product.
### Iron Oxide

**ID:** 1317-61-9  

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  

**HAZARD SCREENING DATE:** 2020-10-19  

**%:** 0.0000 - 100.0000  

**GS:** BM-1  

**RC:** PreC  

**NANO:** No  

**SUBSTANCE ROLE:** Pigment

**HAZARD TYPE** | **AGENCY AND LIST TITLES** | **WARNINGS**  
--- | --- | ---  
CANCER | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

**SUBSTANCE NOTES:** C.I. Pigment Black 11  

A weight percentage is used to cover multiple coloration of the products; hence, different combination of coloring substances.

### Ferric Oxide

**ID:** 1309-37-1  

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  

**HAZARD SCREENING DATE:** 2020-10-19  

**%:** 0.0000 - 100.0000  

**GS:** BM-1  

**RC:** PreC  

**NANO:** No  

**SUBSTANCE ROLE:** Pigment

**HAZARD TYPE** | **AGENCY AND LIST TITLES** | **WARNINGS**  
--- | --- | ---  
CANCER | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

**SUBSTANCE NOTES:** A weight percentage is used to cover multiple coloration of the products; hence, different combination of coloring substances.

### Ferric Oxide, Yellow

**ID:** 51274-00-1  

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  

**HAZARD SCREENING DATE:** 2020-10-19  

**%:** 0.0000 - 100.0000  

**GS:** LT-UNK  

**RC:** PreC  

**NANO:** No  

**SUBSTANCE ROLE:** Pigment

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

**SUBSTANCE NOTES:** C.I. Pigment Yellow.  

A weight percentage is used to cover multiple coloration of the products; hence, different combination of coloring substances.
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.

<table>
<thead>
<tr>
<th>VOC EMISSIONS</th>
<th>CDPH Standard Method V1.2 (Section 01350/CHPS) - N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY:</td>
<td>Self-declared</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All facilities</td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2020-09-18</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td></td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>n/a</td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: Concrete is an inherently non-emitting source.

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.

No accessories are required for this product.

Section 5: General Notes
MANUFACTURER INFORMATION

MANUFACTURER: Permacon
ADDRESS: 8145 rue Bombardier
Anjou QC H1J 1A5, Canada
WEBSITE: www.permacon.ca

CONTACT NAME: Jean-Philippe Faubert
TITLE: Quality Manager
PHONE: 514-351-2125
EMAIL: jpfaubert@permacon.ca

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

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

GreenScreen (GS)

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM-4</td>
<td>Benchmark 4 (prefer-safer chemical)</td>
</tr>
<tr>
<td>BM-3</td>
<td>Benchmark 3 (use but still opportunity for improvement)</td>
</tr>
<tr>
<td>BM-2</td>
<td>Benchmark 2 (use but search for safer substitutes)</td>
</tr>
<tr>
<td>BM-1</td>
<td>Benchmark 1 (avoid - chemical of high concern)</td>
</tr>
<tr>
<td>BM-U</td>
<td>Benchmark Unspecified (due to insufficient data)</td>
</tr>
<tr>
<td>LT-P1</td>
<td>List Translator Possible 1 (Possible Benchmark-1)</td>
</tr>
<tr>
<td>LT-1</td>
<td>List Translator 1 (Likely Benchmark-1)</td>
</tr>
<tr>
<td>LT-UNK</td>
<td>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.)</td>
</tr>
<tr>
<td>NoGS</td>
<td>No GreenScreen.</td>
</tr>
</tbody>
</table>

Recycled Types

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PreC</td>
<td>Pre-consumer recycled content</td>
</tr>
<tr>
<td>PostC</td>
<td>Post-consumer recycled content</td>
</tr>
<tr>
<td>UNK</td>
<td>Inclusion of recycled content is unknown</td>
</tr>
<tr>
<td>None</td>
<td>Does not include recycled content</td>
</tr>
</tbody>
</table>

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.