Normal Weight Soundblox® - Milton plant by Permacon

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 04 22 23.26

PRODUCT DESCRIPTION: This HPD covers all types of Normal Weight (NW) Soundblox® manufactured at Milton plant by Permacon (Oldcastle). This includes A1 and RSC types, ranging from 10cm to 30cm. Soundblox® masonry units are an suitable for industrial settings, gymnasiums, mechanical equipment rooms and comparable installations. Soundblox® derive their sound absorption from a simple cavity-slot resonator construction. The cavities are closed at the top and the slots, open to the sound source, allow the cavities to function as damped (Helmholtz) resonators – an excellent sound absorption tool at low frequencies. Type A-1 is designed for high moisture applications including exterior use. Type RSC Soundblox® have wider, flared slots and each cavity contains an incombustible fibrous filler with a metal septum laminated to the back side to reflect cavity slot resonator construction characteristics. Type RSC units offers a high level of absorption because of its sequential cavities molded right into the blocks. Soundblox® units are available in either concrete or lightweight units (lightweight (LW) units are not covered by this HPD) and are structural and load-bearing with equal compressive strength as comparable standard hollow masonry units. Type RSC, RSC/RF units in 20, 25 and 30 cm widths also feature straight through rear cavities which allow specification of these units in applications requiring vertical reinforcement.

Section 1: Summary — Nested Method / Product Threshold

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
- ( ) Per OSHA MSDS
- ( ) Other

Residuals/Impurities

Residuals/Impurities Considered in 3 of 4 Materials

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

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow 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:AGGREGATES #2 [SC:SAND AND GRAVEL Not Screened]
CEMENTITIOUS MATERIALS #2 [PORTLAND CEMENT LT-P1 | END | CAN
BLAST FURNACE SLAG LT-UNK CALCIUM OXIDE LT-P1 QUARTZ LT-1 | CAN *CHROMIUM (VI) COMPOUNDS* LT-1 | CAN | DEL | REP | SKI | GEN *NICKEL COMPOUNDS* LT-1 | RES | CAN] WATER [WATER BM-4]
INSULATING MATERIAL [MINERAL WOOL WITH FIBER DIAMETER > 6 µM LT-UNK SC:KRAFT PAPER Not Screened 3003-H14 ALUMINUM LT-P1 | RES | PHY | END CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK UREA PHENOL FORMALDEHYDE LT-UNK CORN SUGAR SYRUP NoGS RESIDUAL OILS, PETROLEUM, SOLVENT-DEWAXED LT-1 | PBT | CAN | MUL ANTIMONY TRIOXIDE BM-1 | CAN | MUL]

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, BiologicalMaterial

[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.

The NW Soundblox® by Permacon (Oldcastle) has been screened at 1,000 ppm so that all intentional materials and known potential residuals and impurities present above that threshold have been reported. It is important to note that admixtures have not been reported in this HPD since they are below 1,000 ppm. The NW Soundblox® contains special condition materials, geological/biological materials, which have been reported accordingly.

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: CDPH Standard Method V1.2 (Section 01350/CHPS) - Not tested

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- ○ Yes
- ◉ No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2019-04-09
PUBLISHED DATE: 2019-04-09
EXPIRY DATE: 2022-04-09

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 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

SC:GEOMAT:AGGREGATES #2 %: 90.1000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals and impurities reported by supplier besides the Special Condition Material requirements.

OTHER MATERIAL NOTES: SpecialConditionApplied:GeologicalMaterial --- Aggregates #2 consist mostly of sand and gravel.

SC:SAND AND GRAVEL ID: SC:GeoMat

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **100.0000** GS: **Not Screened** RC: **None** NANO: **No** ROLE: **Coarse and fine aggregates**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	Hazard Screening not performed	

SUBSTANCE NOTES:
Version: SCGeoMats/2018-02-23
Origin: Canada, Ontario
Typical Composition: dolomitic limestone, carbonate type
Potential presence of toxic metals: One supplier reported trace amounts of toxic materials < 100 ppm.
Presence of Radioactive Elements: No knowledge about the presence of radioactive elements from quarry/pits.

Sand and gravel coming from multiple sources all from the same region.

CEMENTITIOUS MATERIALS #2 %: 7.6000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Supplier A: No residuals and impurities reported above 1000 ppm for the component by the supplier. -/- Supplier B: Potential presence of Chromate and Nickel compounds as impurities below 1000 ppm.

OTHER MATERIAL NOTES: Mix of cementitious materials comprising Type HE cement and slag cement. This depicts an average composition. Ranges are introduced due to generic data for some cements.

PORTLAND CEMENT ID: 65997-15-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **70.4000 - 78.3000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **main constituent**

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 Other Material Notes.

BLAST FURNACE SLAG

ID: 65996-69-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **21.7000** GS: **LT-UNK** RC: **PreC** NANO: **No** ROLE: **ingredient**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES: Blast furnace slag is 100% pre-consumer recycled content. See Other Material Notes.

CALCIUM OXIDE

ID: 1305-78-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **0.2000 - 2.3000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **ingredient**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES: See Other Material Notes.

QUARTZ

ID: 14808-60-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **0.1000 - 1.2000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **ingredient**

HAZARD TYPE	AGENCY AND LIST TITLES	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
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Japan - GHS	Carcinogenicity - Category 1A
CANCER	Australia - GHS	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: See Other Material Notes.

CHROMIUM (VI) COMPOUNDS

ID: **Not registered**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **Impurity/Residual** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization
GENE MUTATION	MAK	Germ Cell Mutagen 2

SUBSTANCE NOTES: Chromate compounds.

NICKEL COMPOUNDS

ID: **Not registered**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **Impurity/Residual** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen

SUBSTANCE NOTES: See Residuals and Impurities Notes.

WATER %: 2.3000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: No data collected regarding this material.

OTHER MATERIAL NOTES: Standard water is used (municipal)

WATER ID: 7732-18-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **100.0000** GS: **BM-4** RC: **None** NANO: **No** ROLE: **hydration, binding**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES: See Other Material Notes.

INSULATING MATERIAL %: 0.0000 - 0.1100

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No information provided by tiers suppliers, for the glue and facing regarding the presence of residuals and impurities. The rock wool, itself, has trace amounts (<20 ppm) of formaldehyde due to the binding resin, therefore not included in the Content Inventory.

OTHER MATERIAL NOTES: Sound-absorbing sandwich material (facing, glue, rock wool, glue, facing). Ranges are used for 2 reasons: 1)only RSC Type Soundblox® have this sound-absorbing material, and/or 2)data provided in the form of ranges by suppliers.

MINERAL WOOL WITH FIBER DIAMETER > 6 µM ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **53.5000 - 54.6000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **mineral wool board - Main constituent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES: See Other Material Notes.

SC:KRAFT PAPER

ID: SC:Bio

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **4.6000 - 7.0000** GS: **Not Screened** RC: **UNK** NANO: **No** ROLE: **facing material - backing**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	Hazard Screening not performed	

SUBSTANCE NOTES:
Version: SCBioMats/2018-02-23
Category: Tree-based materials
Identifier: No indication provided for genus sp. of tree.

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

CASRN 9004-34-6

3003-H14 ALUMINUM

ID: 7429-90-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **1.2000 - 3.5000** GS: **LT-P1** RC: **UNK** NANO: **No** ROLE: **facing material - skin layer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammable solid
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: Aluminum foil CAS [7429-90-5] reported with no indication on the type of alloy used. 3003-H14 chosen as an educated approximation for the type of application.

CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **0.6000 - 2.9000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **facing material - reinforcement**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES: See Other Material Notes.

UREA PHENOL FORMALDEHYDE

ID: 25104-55-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **0.0000 - 1.7000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **mineral wool board - binding agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES: See Other Material Notes.

CORN SUGAR SYRUP

ID: 8029-43-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **0.0000 - 0.6000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **mineral wool board - Binding agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES: See Other Material Notes.

RESIDUAL OILS, PETROLEUM, SOLVENT-DEWAXED

ID: 64742-62-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **0.0000 - 0.1000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **mineral wool board - Lubricant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: See Other Material Notes.

ANTIMONY TRIOXIDE

ID: 1309-64-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-09**

%: **0.0000 - 0.2000** GS: **BM-1** RC: **None** NANO: **No** ROLE: **facing material - flame retardant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2B - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Japan - GHS	Carcinogenicity - Category 1B

SUBSTANCE NOTES: See Other Material Notes.

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 — **CDPH Standard Method V1.2 (Section 01350/CHPS) - Not tested**

CERTIFYING PARTY: Self-declared
APPLICABLE FACILITIES: -
CERTIFICATE URL:

ISSUE DATE: 2019-02-28

EXPIRY DATE:

CERTIFIER OR LAB: -

CERTIFICATION AND COMPLIANCE NOTES: RSC Type Soundblox® include an insulating material with organic ingredients, therefore should be tested.

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

This HPD is only valid for normal weight Soundblox® made in Milton and therefore exclude the lightweight unit.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Permacon**
ADDRESS: **8375 5th Side Road**
Milton Ontario L9T 2X7, Canada
WEBSITE: **https://permacon.ca/en/pro**

CONTACT NAME: **Customer Service**
TITLE: **-**
PHONE: **905 875-4215**
EMAIL: **customerservicegta@permacon.ca**

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
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
MAM Mammalian/systemic/organ toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
LAN Land Toxicity
NF Not found on Priority Hazard Lists

GreenScreen (GS)

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