Blocfiller® and Econofill® by Daubois Products Inc.

Health Product Declaration v2.1

CLASSIFICATION: 04 05 13

created via: HPDC Online Builder

PRODUCT DESCRIPTION: This HPD covers Blocfiller® Masonry Grout and Econofill® Masonry Grout for concrete block cavities by Daubois Products Inc. Blocfiller® is used as a reinforcing and consolidating grout to fill concrete blocks core, cell, cavity space and embed rebars in unit masonry construction. Blocfiller® is formulated to meet the specifications prescribed in CSA A179 for fine masonry grout. Available in 15, 20, 25 and 30 Mpa. Econofill® is used as a reinforcing and consolidating grout to fill concrete blocks core, cell, cavity space and embed rebars in unit masonry construction. Econofill® is formulated to meet the specifications prescribed in CSA A179 for fine masonry grout. Available in 20 Mpa.

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 1 of 2 Materials

Explanation(s) provided for Residuals/Impurities?
- (•) Yes ( ) No

Are All Substances Above the Threshold Indicated:

Characterized
Percent Weight and Role Provided?
- (•) Yes ( ) No

Screened
Using Priority Hazard Lists with Results Disclosed?
- (•) Yes ( ) No

Identified
Name and Identifier Provided?
- ( ) 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.

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

AGGREGATES [GRAVEL (GRAVEL) NoGS] PORTLAND CEMENT BLEND [PORTLAND CEMENT (PORTLAND CEMENT) LT-P1 | END | CAN GYPSUM (GYPSUM) LT-UNK LIMESTONE; CALCIUM CARBONATE (LIMESTONE; CALCIUM CARBONATE) LT-UNK CALCIUM OXIDE (CALCIUM OXIDE) LT-P1 MAGNESIUM OXIDE (MAGNESIUM OXIDE) LT-UNK | CAN QUARTZ (QUARTZ) LT-1 | CAN *POTASSIUM SULFATE (POTASSIUM SULFATE)* LT-UNK *SODIUM SULFATE (SODIUM SULFATE)* LT-UNK SILICA FUME (SILICA FUME) LT-P1 CALCIUM HYDROXIDE (CALCIUM HYDROXIDE) LT-P1]

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

INVENTORY AND SCREENING NOTES:

HPD prepared using a Nested Materials Inventory with a product threshold at 1,000 ppm. Admixtures are added to masonry grout formulations but are present in the final product below the disclosure threshold of 1,000 ppm and therefore were not disclosed. The content inventory includes ranges to protect Daubois' proprietary formulations. Masonry grouts contain a material with Special Conditions (defined substance without ID) as per the HPDC. Guidelines for reporting Special Conditions materials are still under development by HPDC. Daubois Products Inc. will update the HPD accordingly once these guidelines get published. Substances present in masonry grouts, as well as known residuals and impurities, have been disclosed at 100 ppm. More details about how residuals and impurities were considered available in the appropriate sections.

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 V1.1 - 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: 2018-02-13
PUBLISHED DATE: 2018-03-02
EXPIRY DATE: 2021-02-13

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

AGGREGATES

%: 65.0000 - 80.0000 **HPD URL: N/A**

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Information not available from supplier.

OTHER MATERIAL NOTES: Aggregates are composed of sand coming from one quarry. The amount of aggregates varies among both products (Blocfiller® and Econofill®).

GRAVEL (GRAVEL)

ID: **Not registered**

%: **100.0000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Main material**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Approximation for sand.

PORTLAND CEMENT BLEND

%: 20.0000 - 35.0000 **HPD URL: N/A**

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities identified in several supplier SDS sheets.

OTHER MATERIAL NOTES: Portland cement blend is an average composition of Portland cement used in the formulation of Masonry grout products. Therefore, the average composition introduces ranges in substance content.

PORTLAND CEMENT (PORTLAND CEMENT)

ID: **65997-15-1**

%: **5.0000 - 100.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Main substance**

HAZARDS:	AGENCY(IES) WITH 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.

GYPSUM (GYPSUM)

ID: **13397-24-5**

%: **1.0000 - 10.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
None Found	No warnings found on HPD Priority lists	

SUBSTANCE NOTES: See Other Material Notes.

LIMESTONE; CALCIUM CARBONATE (LIMESTONE; CALCIUM CARBONATE)

ID: **1317-65-3**

%: **0.0000 - 50.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
None Found	No warnings found on HPD Priority lists	

SUBSTANCE NOTES: Substance present in most but not all cement formulations.

CALCIUM OXIDE (CALCIUM OXIDE)

ID: **1305-78-8**

%: **0.0000 - 5.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
None Found	No warnings found on HPD Priority lists	

SUBSTANCE NOTES: Substance present in most but not all cement formulations.

MAGNESIUM OXIDE (MAGNESIUM OXIDE)

ID: **1309-48-4**

%: **0.0000 - 4.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Ingredient | impurity**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: Substance present in most but not all cement formulations. Considered as an impurity in one formulation.

QUARTZ (QUARTZ)

ID: **14808-60-7**

%: **0.0000 - 10.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
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	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Australia - GHS	H350 - May cause cancer
CANCER	Japan - GHS	Carcinogenicity - Category 1A

SUBSTANCE NOTES: Substance present in most but not all cement formulations.

POTASSIUM SULFATE (POTASSIUM SULFATE)

ID: **7778-80-5**

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

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Substance present as an impurity in some but not all cement formulations.

SODIUM SULFATE (SODIUM SULFATE)

ID: **7757-82-6**

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

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Substance present as an impurity in some but not all cement formulations.

SILICA FUME (SILICA FUME)

ID: **69012-64-2**

%: **0.0000 - 10.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Substance present in most but not all cement formulations.

CALCIUM HYDROXIDE (CALCIUM HYDROXIDE)

ID: **1305-62-0**

%: **0.0000 - 20.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Substance present in most but not all cement formulations.

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 V1.1 - Not tested**

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

ISSUE DATE: 2018-02-13

EXPIRY DATE:

CERTIFIER OR LAB: -

CERTIFICATION AND COMPLIANCE NOTES:

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

Ranges are given to cover both Blocfiller® and Econofill® compositions. Blocfiller® and Econofill® are grouts containing Portland cement blend, calibrated sand and additives such as superplasticizers and expansive agents. They are used as reinforcing and consolidating grouts to fill concrete blocks and embed rebars in masonry walls. Blocfiller® and Econofill® are formulated to meet the specifications prescribed in CSA A179 for fine masonry grouts. Blocfiller® is available in 15, 20, 25 and 30Mpa. Econofill® is available in 20 Mpa. All admixtures are present in both products at level below the disclosure threshold, therefore it has been decided to not disclose substances present in SDS sheets for all 3 admixtures.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Daubois Products Inc.**
ADDRESS: **6155 Boulevard des Grandes Prairies Saint-Léonard Quebec H1P 1A5, Canada**
WEBSITE: **https://www.daubois.com/en/**

CONTACT NAME: **Technical Center**
TITLE: **Technical Assistance**
PHONE: **(770) 216-9580**
EMAIL: **technical@quikrete.com**

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classi cation 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 Unspeci ed (insu cient 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 produc

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

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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.