

CLASSIFICATION: 32 14 13

PRODUCT DESCRIPTION: This HPD covers Avenue Premium and Regular products by Bolduc, in all colors and finishes available. The products comply to CSA A231.1/A231.2 for precast concrete paving slabs and precast concrete pavers.

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 5 of 6 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

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:SAND [SC:GRANITE Not Screened SC:NATURAL SAND Not Screened SC:NON-ALTERED ANORTHOSITE Not Screened SC:NATURAL CALCITE Not Screened] CEMENTS [QUARTZ (CRYSTALLINE QUARTZ) LT-1 | CAN PORTLAND CEMENT LT-P1 | END | CAN GYPSUM LT-UNK SILICA FUME LT-P1 | CAN LIMESTONE, CALCIUM CARBONATE LT-UNK] SC:GEOMAT:AGGREGATES [SC:NON-ALTERED ANORTHOSITE Not Screened SC:NATURAL CALCITE Not Screened SC:NATURAL CALCIUM CARBONATE Not Screened SC:BASALT Not Screened] WATER [WATER BM-4] ADMIXTURES [WATER BM-4 2,2',2''-(1,2-ETHANEDIYLDINITRILO)TETRAKISETHANOL NoGS TRIETHOXYOCTYLSILANE LT-UNK ALKENES, C14-16 ALPHA-, SULFONATED, SODIUM SALTS LT-UNK ACETIC ACID 30% (ACETIC ACID) LT-UNK | RES | SKI GUM ROSIN (ROSIN) LT-P1 | SKI] PIGMENTS [FERRIC OXIDE BM-1 | CAN FERRIC OXIDE YELLOW LT-UNK IRON OXIDE BM-1 | CAN C.I. PIGMENT BLUE 28 LT-1 | RES | CAN | GEN C.I. PIGMENT BLUE 36 LT-1 | RES | CAN | GEN]

Number of Greenscreen BM-4/BM3 contents ... 2

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.

Avenue products by Bolduc have been screened at 1,000 ppm so that all intentional materials and known potential residuals and impurities present above that threshold have been reported. Avenue product contains special condition materials, geological 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 Applicable

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

☐ Yes

☒ No

PREPARER: **Vertima**

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2020-03-06

PUBLISHED DATE: 2020-03-06

EXPIRY DATE: 2023-03-06



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

SC:GEOMAT:SAND		%: 33.80 - 61.70	
PRODUCT THRESHOLD: 1000 ppm		RESIDUALS AND IMPURITIES CONSIDERED: Yes	
RESIDUALS AND IMPURITIES NOTES: Residuals and impurities considered as prescribed in the Special Conditions guidelines.			
OTHER MATERIAL NOTES: SpecialConditionApplied:GeologicalMaterial --- Several types of sand from different suppliers are used in the manufacturing of these products, as described in the substances. Since the product composition and types of sand used varies slightly among colors, there is a difference in terms of weight %. It has been decided to declare all types of sand under the same material with an average composition.			

SC:GRANITE		ID: SC:GeoMat		
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-06		
%: 0.00 - 63.90	GS: Not Screened	RC: None	NANO: No	ROLE: Main constituent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
Hazard Screening not performed				
SUBSTANCE NOTES: Version: SCGeoMats/2018-02-23 Origin: Québec (QC) Canada Typical Composition: Granite Potential presence of toxic metals: None according to supplier Presence of Radioactive Elements: None according to supplier See Other Material Notes.				

SC:NATURAL SAND		ID: SC:GeoMat		
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-06		
%: 0.00 - 32.10	GS: Not Screened	RC: None	NANO: No	ROLE: Main constituent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
Hazard Screening not performed				

SUBSTANCE NOTES:

Version: SCGeoMats/2018-02-23

Origin: Vallée-Jonction (QC) Canada

Typical Composition: unknown

Potential presence of toxic metals: None according to supplier

Presence of Radioactive Elements: None according to supplier

See Other Material Notes.

SC:NON-ALTERED ANORTHOSITE

ID: SC:GeoMat

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-03-06

?: 0.00 - 66.80

GS: Not Screened

RC: PreC

NANO: No

ROLE: Main constituent

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCGeoMats/2018-02-23

Origin: Havre-St-Pierre (QC) Canada

Typical Composition: Granitic composition

Potential presence of toxic metals: None according to supplier

Presence of Radioactive Elements: None according to supplier

This natural aggregate is considered a 100% pre-consumer recycled content since it is recovered from mining operations.

SC:NATURAL CALCITE

ID: SC:GeoMat

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-03-06

?: 0.00 - 39.80

GS: Not Screened

RC: None

NANO: No

ROLE: Main constituent

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCGeoMats/2018-02-23

Origin: Dolbeau-Mistassini (QC) Canada

Typical Composition: CaCO₃

Potential presence of toxic metals: None according to supplier

Presence of Radioactive Elements: None according to supplier

See Other Material Notes.

CEMENTS

?: 16.50 - 24.30

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Information about residuals and impurities not provided by manufacturer #1. Carbonate-based cement supplier declared impurities (disclosed below) and residuals below disclosure threshold from processing aid (glyco-based grinding aid).

OTHER MATERIAL NOTES: Several types of cements from different suppliers are used in the manufacturing of these products (white cement, type 10 SF, GU, carbonate-based cement). Since the product composition and types of cements used varies slightly among colors, there is a difference in terms of weight %. It has been decided to declare all types of cements under the same material with an average composition.

QUARTZ (CRYSTALLINE QUARTZ)				ID: 14808-60-7
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-06		
%: 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	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 - Australia		H350i - May cause cancer by inhalation	
CANCER	GHS - Japan		Carcinogenicity - Category 1A [H350]	
SUBSTANCE NOTES: Naturally occuring as part of ground limestone.				

PORTLAND CEMENT					ID: 65997-15-1
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2020-03-06		
%: 0.00 - 84.00	GS: LT-P1	RC: UNK	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.					

GYPSUM					ID: 13397-24-5
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2020-03-06		
%: 0.00 - 7.30	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Main constituent	

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
SUBSTANCE NOTES: See Other Material Notes.		

SILICA FUME

ID: 69012-64-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-06		
%: 0.00 - 7.30	GS: LT-P1	RC: UNK	NANO: No	ROLE: Supplementary cementitious material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CANCER	GHS - Australia		H350i - May cause cancer by inhalation	
SUBSTANCE NOTES: See Other Material Notes.				

LIMESTONE, CALCIUM CARBONATE

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-06		
%: 0.00 - 16.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Main constituent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: See Other Material Notes.				

SC:GEOMAT:AGGREGATES

%: 14.90 - 40.90

PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONSIDERED: Yes
RESIDUALS AND IMPURITIES NOTES: Residuals and impurities considered as prescribed in the Special Conditions guidelines.	
OTHER MATERIAL NOTES: SpecialConditionApplied:GeologicalMaterial --- Several types of aggregates from different suppliers are used in the manufacturing of these products, as described in the substances. Since the product composition and types of aggregates used varies slightly among colors, there is a difference in terms of weight %. It has been decided to declare all types of aggregates under the same material with an average composition.	

SC:NON-ALTERED ANORTHOSITE

ID: SC:GeoMat

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-06		
%: 0.00 - 42.80	GS: Not Screened	RC: PreC	NANO: No	ROLE: Main constituent

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCGeoMats/2018-02-23

Origin: Havre-St-Pierre (QC) Canada

Typical Composition: Granitic composition

Potential presence of toxic metals: None according to supplier

Presence of Radioactive Elements: None according to supplier

This natural aggregate is considered a 100% pre-consumer recycled content since it is recovered from mining operations.

SC:NATURAL CALCITE

ID: SC:GeoMat

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-03-06

%: 0.00 - 61.90

GS: Not Screened

RC: None

NANO: No

ROLE: Main constituent

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCGeoMats/2018-02-23

Origin: Dolbeau-Mistassini (QC) Canada

Typical Composition: CaCO₃

Potential presence of toxic metals: None according to supplier

Presence of Radioactive Elements: None according to supplier

See Other Material Notes.

SC:NATURAL CALCIUM CARBONATE

ID: SC:GeoMat

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-03-06

%: 0.00 - 72.00

GS: Not Screened

RC: None

NANO: No

ROLE: Main constituent

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCGeoMats/2018-02-23

Origin: St-Marc (QC) Canada

Typical Composition: CaCO₃

Potential presence of toxic metals: None according to supplier

Presence of Radioactive Elements: None according to supplier

List of naturally occurring impurities in this geological substance, as declared by supplier:

- Magnesium carbonate, CAS# 546-93-0, 0.70%
- Silica (SiO₂), CAS# 14808-60-7, 2.10%
- Ferric oxide, CAS# 1309-37-1, 0.25%

SC:BASALT

ID: SC:GeoMat

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-06		
%: 0.00 - 81.60	GS: Not Screened	RC: None	NANO: No	ROLE: Main constituent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
Hazard Screening not performed				
SUBSTANCE NOTES: Version: SCGeoMats/2018-02-23 Origin: Bellechasse (QC) Canada Typical Composition: Basalt Potential presence of toxic metals: Yes, all under 1,000 ppm. Test showed trace amounts of As, Cd, Cr, Co, Sn, Hg, Ni and Pb all under 200 ppm. Presence of Radioactive Elements: None according to supplier See Other Material Notes.				

WATER

%: 5.70 - 5.80

PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONSIDERED: No
RESIDUALS AND IMPURITIES NOTES: City water is not considered as a material with residuals and impurities.	
OTHER MATERIAL NOTES: Standard water is used (municipal).	

WATER

ID: 7732-18-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-06		
%: 100.00	GS: BM-4	RC: None	NANO: No	ROLE: Main constituent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: See Other Material Notes.				

ADMIXTURES

%: 0.10 - 0.20

PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONSIDERED: Yes
RESIDUALS AND IMPURITIES NOTES: No residuals or impurities reported by the supplier above the disclosure threshold.	
OTHER MATERIAL NOTES: Several types of admixtures are used in the manufacturing of these products: plasticizers, air entrainer and water-repellent. Since the product composition varies slightly among colors, there is a difference in terms of weight %. It has been decided to declare all types of admixtures under the same material with an average composition. Individually, each admixture is under the disclosure threshold, but when combined together the total w% is superior to 0.1%.	

WATER

ID: 7732-18-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2020-03-06
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%: **27.40 - 87.30**
GS: **BM-4**
RC: **None**
NANO: **No**
ROLE: **Solvent**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See Other Material Notes.

2,2',2'',2'''-(1,2-ETHANEDIYLDINITRILO)TETRAKISETHANOL

ID: **140-07-8**

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

HAZARD SCREENING DATE: **2020-03-06**

%: **7.60 - 19.00**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Strength enhancer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See Other Material Notes.

TRIETHOXYOCTYLSILANE

ID: **2943-75-1**

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

HAZARD SCREENING DATE: **2020-03-06**

%: **3.80 - 9.50**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Hydrophobic agent**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See Other Material Notes.

ALKENES, C14-16 ALPHA-, SULFONATED, SODIUM SALTS

ID: **68439-57-6**

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

HAZARD SCREENING DATE: **2020-03-06**

%: **0.05 - 0.90**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Surfactant**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See Other Material Notes.

ACETIC ACID 30% (ACETIC ACID)

ID: **64-19-7**

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

HAZARD SCREENING DATE: **2020-03-06**

%: **0.00 - 3.80**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Acidifying agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rr&Rs) - irritant-induced & sensitizer-induced
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
SUBSTANCE NOTES: See Other Material Notes.		

GUM ROSIN (ROSIN)

ID: 8050-09-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-06		
%: 0.00 - 0.30	GS: LT-P1	RC: None	NANO: No	ROLE: Air-entrainment agent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction		
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization		
SUBSTANCE NOTES: See Other Material Notes.				

PIGMENTS

%: 0.00 - 1.40

PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONSIDERED: Yes
RESIDUALS AND IMPURITIES NOTES: Most suppliers did not declared any residuals or impurities. One supplier declared proprietary impurities from recycled content raw materials that were below the disclosure threshold.	
OTHER MATERIAL NOTES: Several types of pigments from different suppliers are used in the manufacturing of these products (yellow, red, black and blue). Since the product composition and types of pigments used varies slightly among colors, there is a difference in terms of weight %. It has been decided to declare all types of pigments under the same material with an average composition.	

FERRIC OXIDE

ID: 1309-37-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-06		
%: 0.00 - 8.00	GS: BM-1	RC: PreC	NANO: No	ROLE: Red colorant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification		
SUBSTANCE NOTES: 93% of certified PreC recycled content.				

FERRIC OXIDE YELLOW

ID: 51274-00-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-06		
%: 0.00 - 100.00	GS: LT-UNK	RC: PreC	NANO: No	ROLE: yellow color
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: 93% of certified PreC recycled content.				

IRON OXIDE

ID: **1317-61-9**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-06	
%: 0.00 - 36.00	GS: BM-1	RC: PreC	NANO: No ROLE: Black color
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification	
SUBSTANCE NOTES: 93% of certified PreC recycled content.			

C.I. PIGMENT BLUE 28

ID: **1345-16-0**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-06		
%: 0.00 - 6.00	GS: LT-1	RC: None	NANO: No	ROLE: Blue color
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted		
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man		
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization		
GENE MUTATION	MAK	Germ Cell Mutagen 3a		
SUBSTANCE NOTES: See Other Material Notes.				

C.I. PIGMENT BLUE 36

ID: **68187-11-1**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2020-03-06		
%: 0.00 - 7.00	GS: LT-1	RC: None	NANO: No	ROLE: Blue color	

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
GENE MUTATION	MAK	Germ Cell Mutagen 3a

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 Applicable

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2019-

EXPIRY DATE:

CERTIFIER OR LAB: -

APPLICABLE FACILITIES: All

08-16

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: Exterior products

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

Avenue Premium are 2 concrete products, meaning that the product is composed of a base concrete, and a face concrete that has a typical minimum thickness of 6 mm. On the contrary, Avenue Regular is a single concrete throughout. Both Avenue products are 100 mm-thick.



MANUFACTURER INFORMATION

MANUFACTURER: **BOLDUC Concrete product manufacturer**
ADDRESS: **1358, 2e rue Ste-Marie QC G6E 1G8, Canada**
WEBSITE: **www.bolduc.ca**

CONTACT NAME: **Guy Turcotte**
TITLE: **Head of performance and quality improvement**
PHONE: **1-800-463-8966**
EMAIL: **gturcotte@bolduc.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	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)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

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.