

CLASSIFICATION: 12 36 00; 09 70 00

PRODUCT DESCRIPTION: Avonite Surfaces® is a global leading brand of solid surface products for the architecture and design community. Avonite offers a broad palette of colors and designs for commercial and institutional projects. It can be used in vertical or horizontal applications, applied in straight or curved lines, or thermoformed into a myriad of shapes for countertops, wet walls, divider panels, sinks and showers, furniture, interior and exterior architectural features, and many other uses your imagination can conceive. Avonite products are available in popular 12 mm thickness, as well as 3 mm, 6 mm and 18 mm thickness. Sheets are available in the industry standard 30 in x 144 in and in our exclusive "Right Size™" widths from 24 in to 60 in in custom lengths to minimize waste and scrap, and reduce seaming and installation labor. To learn more, visit <https://aristechsurfaces.com/avonite>.

Section 1: Summary

Basic 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

- Considered
- Partially Considered
- Not Considered

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.

Screened Yes Ex/SC Yes No

All substances screened using Priority Hazard Lists with results disclosed.

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

AVONITE SURFACES [ALUMINA TRIHYDRATE BM-2 | RES METHYL METHACRYLATE LT-P1 | RES | PHY | SKI | END METHYL METHACRYLATE, COPOLYMER WITH BUTYL ACRYLATE LT-UNK BUTYL ACRYLATE LT-UNK | SKI | EYE UNDISCLOSED NoGS UNDISCLOSED LT-P1 | MUL UNDISCLOSED CHEMICAL #4 LT-1 | PBT | MAM | GEN | CAN | MUL UNDISCLOSED CHEMICAL #5 LT-UNK | SKI | EYE UNDISCLOSED CHEMICAL #6 LT-UNK UNDISCLOSED CHEMICAL #8 LT-UNK UNDISCLOSED CHEMICAL #7 NoGS UNDISCLOSED BM-3 UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-P1 | MUL UNDISCLOSED NoGS UNDISCLOSED LT-UNK | SKI UNDISCLOSED LT-1 | MAM | GEN | CAN UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-UNK | SKI | EYE EPOXIDIZED LINSEED OIL NoGS TITANIUM DIOXIDE LT-1 | CAN | END UNDISCLOSED BM-2 | RES UNDISCLOSED LT-UNK UNDISCLOSED BM-2 | CAN UNDISCLOSED LT-UNK CARBON BLACK LT-1 | CAN UNDISCLOSED LT-UNK UNDISCLOSED LT-1 | RES | CAN | AQU | SKI | MUL | GEN | REP UNDISCLOSED BM-3 UNDISCLOSED BM-2 | CAN UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 UNDISCLOSED CHEMICAL #1 LT-P1 UNDISCLOSED CHEMICAL #2 LT-UNK UNDISCLOSED CHEMICAL #3 NoGS]

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

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Aristech worked with an HPDC Approved Preparer to confirm that all residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 100 ppm threshold. Due to the proprietary nature of the information, the name and CAS number for certain chemicals have been redacted from this substance entry. "Undisclosed" indicates chemicals Aristech holds confidential; "Undisclosed Chemical #n" indicates chemicals Aristech suppliers protect with NDAs.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC Content data is not applicable for this product category.

VOC emissions: SCS Indoor Advantage Gold - Classroom & Office scenario
Recycled content: SCS Recycled Content Certification - Products
Other: Environmental Product Declaration (EPD) by SCS

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
- No

PREPARER: **ToxServices LLC**
VERIFIER: **SCS Global Services**
VERIFICATION #: **qGE-4893**

SCREENING DATE: **2018-11-30**
PUBLISHED DATE: **2019-08-16**
EXPIRY DATE: **2021-11-30**



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

AVONITE SURFACES

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Aristech worked with an HPDC Approved Prepare to confirm that all residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 100 ppm threshold.

OTHER PRODUCT NOTES:

ALUMINA TRIHYDRATE

ID: 21645-51-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-11-30

#: 42.78 - 70.06

GS: BM-2

RC: None

NANO: No

ROLE: Additive Component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer. The GreenScreen Benchmark® assessment score of BM-2 was provided through the HPD 2.1 Builder Tool.

METHYL METHACRYLATE

ID: 80-62-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-11-30

#: 12.96 - 65.15

GS: LT-P1

RC: None

NANO: No

ROLE: Structure Component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

METHYL METHACRYLATE, COPOLYMER WITH BUTYL ACRYLATE

ID: 25852-37-3

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

HAZARD SCREENING DATE: **2018-11-30**

#: **2.41 - 47.48** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Structure Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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None found

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

BUTYL ACRYLATE

ID: 141-32-2

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

HAZARD SCREENING DATE: **2018-11-30**

#: **0.50 - 2.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Structure Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

SKIN SENSITIZE

EU - GHS (H-Statements)

H317 - May cause an allergic skin reaction

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

SKIN SENSITIZE

MAK

Sensitizing Substance Sh - Danger of skin sensitization

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSED

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

HAZARD SCREENING DATE: **2018-11-30**

#: **0.34 - 0.46** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Colorant Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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None found

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSED

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

HAZARD SCREENING DATE: **2018-11-30**

#: **0.01 - 0.04** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Colorant Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
3rd Party Screened		

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSED CHEMICAL #4

ID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2018-11-30		
%: 0.00 - 0.39	GS: LT-1	RC: None	NANO: No	ROLE: Colorant Component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms)		
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans		
MAMMALIAN	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways		
GENE MUTATION	EU - GHS (H-Statements)	H340 - May cause genetic defects		
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer		
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure		
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man		
GENE MUTATION	EU - REACH Annex XVII CMRs	Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic 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		
GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B		
GENE MUTATION	Australia - GHS	H340 - May cause genetic defects		
CANCER	Australia - GHS	H350 - May cause cancer		
3rd Party Screened				

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSED CHEMICAL #5

ID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2018-11-30		
%: 0.00 - 0.21	GS: LT-UNK	RC: None	NANO: No	ROLE: Additive Component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSED CHEMICAL #6

ID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2018-11-30			
%: 0.00 - 0.10	GS: LT-UNK	RC: None	NANO: No	ROLE: Additive Component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer,

UNDISCLOSED CHEMICAL #8

ID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2018-11-30			
%: 0.00 - 0.10	GS: LT-UNK	RC: None	NANO: No	ROLE: Colorant Component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer,

UNDISCLOSED CHEMICAL #7

ID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2018-11-30			
%: 0.00 - 0.02	GS: NoGS	RC: None	NANO: No	ROLE: Colorant Component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSED

%: **0.00 - 10.00**GS: **BM-3**RC: **None**NANO: **No**ROLE: **Additive Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer. The GreenScreen Benchmark® assessment score of BM-3 was provided through the HPD 2.1 Builder Tool.

UNDISCLOSED%: **0.00 - 0.04**GS: **LT-P1**RC: **None**NANO: **No**ROLE: **Additive Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 3 - Severe Hazard to Waters

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSED%: **0.00 - 0.27**GS: **LT-P1**RC: **None**NANO: **No**ROLE: **Additive Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSED%: **0.00 - 0.27**GS: **NoGS**RC: **None**NANO: **No**ROLE: **Additive Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSEDHAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.97** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Colorant Component**

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

3rd Party Screened

SUBSTANCE NOTES: **This substance was properly screened by the HPD Approved Preparer.****UNDISCLOSED**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.04** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Additive and Colorant Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MAMMALIAN	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways
GENE MUTATION	EU - GHS (H-Statements)	H340 - May cause genetic defects
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
GENE MUTATION	EU - REACH Annex XVII CMRs	Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B
GENE MUTATION	Australia - GHS	H340 - May cause genetic defects
CANCER	Australia - GHS	H350 - May cause cancer

3rd Party Screened

SUBSTANCE NOTES: **This substance was properly screened by the HPD Approved Preparer.****UNDISCLOSED**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.08** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Colorant Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
3rd Party Screened		

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2018-11-30		
%: 0.00 - 0.02	GS: LT-P1	RC: None	NANO: No	ROLE: Colorant Component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
3rd Party Screened				

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2018-11-30		
%: 0.00 - 2.01	GS: LT-UNK	RC: None	NANO: No	ROLE: Colorant Component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation		
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction		
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation		
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization		
3rd Party Screened				

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

EPOXIDIZED LINSEED OIL

ID: **8016-11-3**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2018-11-30		
%: 0.00 - 2.28	GS: NoGS	RC: None	NANO: No	ROLE: Additive Component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found				
3rd Party Screened				

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

TITANIUM DIOXIDE

ID: 13463-67-7

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

HAZARD SCREENING DATE: **2018-11-30**

#: **0.00 - 3.38** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Colorant Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSED

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

HAZARD SCREENING DATE: **2018-11-30**

#: **0.00 - 0.02** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Colorant Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSED

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

HAZARD SCREENING DATE: **2018-11-30**

#: **0.00 - 0.11** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Colorant Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSEDHAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.31**GS: **BM-2**RC: **None**NANO: **No**ROLE: **Colorant Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

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

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer. The GreenScreen Benchmark® assessment score of BM-2 was provided through the HPD 2.1 Builder Tool

UNDISCLOSEDHAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.02**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Colorant Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found***3rd Party Screened***

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

CARBON BLACKID: **1333-86-4**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.77**GS: **LT-1**RC: **None**NANO: **No**ROLE: **Colorant Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER**US CDC - Occupational Carcinogens****Occupational Carcinogen****CANCER****CA EPA - Prop 65****Carcinogen - specific to chemical form or exposure route****CANCER****IARC****Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources****CANCER****MAK****Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification*****3rd Party Screened***

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSEDHAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.11**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Colorant Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		*3rd Party Screened*

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSED

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

HAZARD SCREENING DATE: **2018-11-30**

#: **0.00 - 0.01** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Colorant Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life M = 10
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
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
REPRODUCTIVE	Australia - GHS	H360F - May damage fertility

3rd Party Screened

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSED

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

HAZARD SCREENING DATE: **2018-11-30**

#: **0.00 - 0.24** GS: **BM-3** RC: **None** NANO: **No** ROLE: **Colorant Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		*3rd Party Screened*

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer. The GreenScreen Benchmark® assessment score of BM-3 was provided through the HPD 2.1 Builder Tool

UNDISCLOSEDHAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.31**GS: **BM-2**RC: **None**NANO: **No**ROLE: **Colorant Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER**MAK****Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels*****3rd Party Screened***

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer. The GreenScreen Benchmark® assessment score of BM-2 was provided through the HPD 2.1 Builder Tool.

UNDISCLOSEDHAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.07**GS: **NoGS**RC: **None**NANO: **No**ROLE: **Colorant Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found***3rd Party Screened***

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSEDHAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.55**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Colorant Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found***3rd Party Screened***

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSEDHAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.01**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Colorant Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found***3rd Party Screened***

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

UNDISCLOSEDHAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.45**GS: **LT-P1**RC: **None**NANO: **No**ROLE: **Colorant Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

3rd Party ScreenedSUBSTANCE NOTES: **This substance was properly screened by the HPD Approved Preparer.****UNDISCLOSED CHEMICAL #1**ID: **Undisclosed**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.52**GS: **LT-P1**RC: **None**NANO: **No**ROLE: **Colorant Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

3rd Party ScreenedSUBSTANCE NOTES: **This substance was properly screened by the HPD Approved Preparer.****UNDISCLOSED CHEMICAL #2**ID: **Undisclosed**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.47**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Structure Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

3rd Party ScreenedSUBSTANCE NOTES: **This substance was properly screened by the HPD Approved Preparer.****UNDISCLOSED CHEMICAL #3**ID: **Undisclosed**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-30**%: **0.00 - 0.40**GS: **NoGS**RC: **None**NANO: **No**ROLE: **Colorant Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

3rd Party ScreenedSUBSTANCE NOTES: **This substance was properly screened by the HPD Approved Preparer.**

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

SCS Indoor Advantage Gold - Classroom & Office scenario

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

https://www.scs-certified.com/products/cert_pdfs/AristechSurfaces_2019_SCS-IAQ-04802_s.pdf

ISSUE DATE:

2018-01-05

EXPIRY

DATE:
2020-01-31

CERTIFIER OR LAB:

SCS Global

CERTIFICATION AND COMPLIANCE NOTES: **SCS Indoor Advantage Gold Certified - SCS-IAQ-04802; Indoor Air Quality Certified to SCS-EC10.3-2014e v4.0. Conforms to the CDPH/EHLB Standard Method (CA 01350) v1.2-2017 for the school classroom, private office, and single-family residence parameters for wall-coverings.**

RECYCLED CONTENT

SCS Recycled Content Certification - Products

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

https://www.scs-certified.com/products/cert_pdfs/Aristech_2018_SCS-MC-02224_s.pdf

ISSUE DATE:

2018-01-12

EXPIRY DATE:

2019-11-30

CERTIFIER OR LAB:

SCS Global

CERTIFICATION AND COMPLIANCE NOTES: **Conforms to the SCS Recycled Content Standard V7-0 for an Minimum 16% Pre-Consumer Recycled Polymer Content. Material quantification is calculated by a mass-balance on a dry-weight basis.**

OTHER

Environmental Product Declaration (EPD) by SCS

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

https://aristechsurfaces.com/SCS-EPD-05006_AvoniteSurfaces_060818.pdf

ISSUE DATE: **2018-06-08**

EXPIRY DATE: **2023-06-07**

CERTIFIER OR LAB: **SCS Global**

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

Aristech worked with the HPDC Approved Preparer, ToxServices LLC, to confirm that all residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 100 ppm threshold.



MANUFACTURER INFORMATION

MANUFACTURER: **Aristech Surfaces, LLC**
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Florence KY 41042, USA
 WEBSITE: **www.aristechsurfaces.com**

CONTACT NAME: **Sebastian Joseph**
 TITLE: **Director, R&D**
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KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement)	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.