

CLASSIFICATION: 06 61 19 QUARTZ SURFACING FABRICATION; 12 36 61.19 QUARTZ AGGLOMERATE (NATURAL QUARTZ AND RESIN COMPOSITE) COUNTERTOPS

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Corian® Quartz* materials are comprised of reacted monomers and resins, natural quartz particles, and colorants, and are manufactured in the form of slabs in various gauges. Long-lasting and GREENGUARD and GREENGUARD Gold Certified as a low emitting material, Corian® Quartz surfaces, agglomerated stone, are a high-performance material, delivering strength, and heat and scratch resistance. The Corian® Quartz Terra Collection colors are the same sophisticated quartz surface as ever, but their composition includes a percentage of pre-consumer and post-consumer recycled content (Post-consumer content percentages vary by color). When properly cleaned, Corian® Quartz does not promote the growth of mold and/or mildew. Corian® Quartz may help contribute to U.S. Green Building Council (USGBC) LEED® points. Most colors of Corian® Quartz are NSF/ANSI Standard 51 Certified for the strictest level – Food Zone. Exposure to any hazards associated with the inputs mentioned is not present in the finished form of Corian® Quartz. The ingredients listed which trigger the associated cancer hazard are inert within the finished form of Corian® Quartz. *(Corian® Quartz formerly known as Zodiaq® Quartz Surface).

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

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.

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

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

CORIAN® QUARTZ [QUARTZ **LT-1** | CAN POLYESTER RESIN **NoGS** | UNDISCLOSED **LT-P1** | MUL CRISTOBALITE **LT-1** | CAN GLASS - CRUSHED GLASS **LT-UNK** | CAN UNDISCLOSED **LT-UNK** TITANIUM DIOXIDE **LT-1** | CAN | END IRON OXIDE BLACK (IRON OXIDE BLACK) **LT-UNK** CARBON BLACK (CARBON BLACK) **LT-1** | CAN FERRIC OXIDE YELLOW (FERRIC OXIDE YELLOW) **LT-UNK** UNDISCLOSED **LT-UNK** IRON OXIDE RED **BM-2** | CAN]

INVENTORY AND SCREENING NOTES:

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: GreenGuard - Gold (previously Children & Schools)
 VOC emissions: GreenGuard - Indoor Air Quality Certified
 LCA: Environmental Product Declaration (EPD) by UL - Industry Generic
 Material content migration: NSF/ANSI Standard 51 - Food equipment Materials

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:
 VERIFICATION #:

SCREENING DATE: 2017-10-04

PUBLISHED DATE: 2018-02-26

EXPIRY DATE: 2020-10-04

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

CORIAN® QUARTZ

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Corian® Quartz is comprised of reacted monomers and resins, natural quartz particles, recycled glass and colorants, and manufactured in the form of slabs in various gauges. Residuals or impurities that may be present in the finished product greater than the inventory threshold indicated have been reviewed and considered by direct testing of Corian® Quartz product or based on Safety Data Sheet information for individual ingredients.

OTHER PRODUCT NOTES: Corian® Quartz surfacing material in its final form is an article, is nontoxic and non-allergic to humans.

QUARTZ

ID: 14808-60-7

#: 80.0000 - 95.0000 GS: LT-1 RC: None NANO: No ROLE: Natural Quartz Aggregate Filler

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	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	H350 - May cause cancer

SUBSTANCE NOTES: Percent range is given due to various colors available. The material inputs for Corian® Quartz (agglomerated stone) product are comprised of reacted monomers and resins, inert mineral fillers, and colorants which are reacted in the manufacturing process thus preventing any exposure of health hazards of the final product. Form-specific hazard for quartz is not expected to apply when this substance is bound in the matrix of the finished product. In its finished form, Corian® Quartz is an article, is nontoxic and non-allergic to humans. Granite, marble, concrete, quartz engineered stone, etc. have silicosis concerns during the production, cutting, polishing and grinding of these types of material dry in the absence water. All of these types of materials are to be cut, fabricated, polished, etc. in the presence of water.

POLYESTER RESIN

ID: Undisclosed

#: 4.0000 - 15.0000 GS: NoGS RC: None NANO: No ROLE: Binder

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESPIRATORY	CHE - Toxicant Database	Asthma - allergen, sensitizer - strong evidence

SUBSTANCE NOTES: Unsaturated polyester resin is used in the manufacture of engineered stone (agglomerated stone) products. This resin consists of approximately 35 - 40% styrene (CAS 100-42-5) and 60 -65% unsaturated polyester oligomer (CAS 764-71-6; 107-21-1). Corian® Quartz is comprised of reacted monomers and resins, natural quartz particles, recycled glass and colorants, and manufactured in the form of slabs in various gauges. The material inputs for Corian® Quartz are encapsulated by polymerization of unsaturated polyester resin in the manufacturing process.

UNDISCLOSED

%: **0.0300 - 0.2500** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Polymerization initiator**

HAZARDS: AGENCY(IES) WITH WARNINGS:

MULTIPLE German FEA - Substances Hazardous to Waters Class 2 - Hazard to Waters

SUBSTANCE NOTES: Corian® Quartz is comprised of reacted monomers and resins, natural quartz particles, recycled glass and colorants, and manufactured in the form of slabs in various gauges. The material inputs for Corian® Quartz are encapsulated by polymerization of unsaturated polyester resin in the manufacturing process. Corian® Quartz surfacing material in its final form is an article, is nontoxic and non-allergic to humans.

CRISTOBALITE

ID: **14464-46-1**

%: **0.0000 - 45.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Agglomerated stone filler**

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	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	H350 - May cause cancer

SUBSTANCE NOTES: Percent range is given due to various colors available. The material inputs for Corian® Quartz (agglomerated stone) product are comprised of reacted monomers and resins, inert mineral fillers, and colorants which are reacted in the manufacturing process thus preventing any exposure of health hazards of the final product. Form-specific hazard for quartz is not expected to apply when this substance is bound in the matrix of the finished product. In its finished form, Corian® Quartz is an article, is nontoxic and non-allergic to humans. Granite, marble, concrete, quartz engineered stone, etc. have silicosis concerns during the production, cutting, polishing and grinding of these types of material dry in the absence water. All of these types of materials are to be cut, fabricated, polished, etc. in the presence of water.

GLASS - CRUSHED GLASS

ID: **65997-17-3**

%: **0.0000 - 25.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Agglomerated stone filler (pre-consumer/post-consumer glass)**

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER EU - GHS (H-Statements) H351 - Suspected of causing cancer

SUBSTANCE NOTES: Percent range is given due to various colors available. Corian® Quartz Coriander, Flax, Mossy Green and Warm Taupe colors contain a minimum of 25% recycled glass which is a combination of pre-consumer and post-consumer glass. The material inputs for Corian® Quartz (agglomerated stone) product are comprised of reacted monomers and resins, inert mineral fillers, and colorants which are reacted in the manufacturing process thus preventing any exposure of health hazards of the final product. Form-specific hazard for quartz is not expected to apply when this substance is bound in the matrix of the finished product. In its finished form, Corian® Quartz is an article, is nontoxic and non-allergic to humans. Granite, marble, concrete, quartz engineered stone, etc. have silicosis concerns during the production, cutting, polishing and grinding of these types of material dry in the absence water. All of these types of materials are to be cut, fabricated, polished, etc. in the presence of water.

UNDISCLOSED

%: 0.0000 - 0.3000

GS: LT-UNK

RC: None

NANO: No

ROLE: Cross-linking Agent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Corian® Quartz is comprised of reacted monomers and resins, natural quartz particles, recycled glass and colorants, and manufactured in the form of slabs in various gauges. The material inputs for Corian® Quartz are encapsulated by polymerization of unsaturated polyester resin in the manufacturing process. Corian® Quartz surfacing material in its final form is an article, is nontoxic and non-allergic to humans.

TITANIUM DIOXIDE

ID: 13463-67-7

%: 0.0000 - 3.0000

GS: LT-1

RC: None

NANO: No

ROLE: Pigment/Colorant

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

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

SUBSTANCE NOTES: Corian® Quartz is comprised of reacted monomers and resins, natural quartz particles, recycled glass and colorants, and manufactured in the form of slabs in various gauges. The material inputs for Corian® Quartz are encapsulated by polymerization of unsaturated polyester resin in the manufacturing process. Corian® Quartz surfacing material in its final form is an article, is nontoxic and non-allergic to humans.

IRON OXIDE BLACK (IRON OXIDE BLACK)

ID: 12227-89-3

%: 0.0000 - 1.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Pigment/Colorant

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Corian® Quartz is comprised of reacted monomers and resins, natural quartz particles, recycled glass and colorants, and manufactured in the form of slabs in various gauges. The material inputs for Corian® Quartz are encapsulated by polymerization of unsaturated polyester resin in the manufacturing process. Corian® Quartz surfacing material in its final form is an article, is nontoxic and non-allergic to humans.

CARBON BLACK (CARBON BLACK)

ID: 1333-86-4

%: 0.0000 - 1.0000

GS: LT-1

RC: None

NANO: No

ROLE: Pigment/Colorant

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

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

SUBSTANCE NOTES: Corian® Quartz is comprised of reacted monomers and resins, natural quartz particles, recycled glass and colorants, and manufactured in the form of slabs in various gauges. The material inputs for Corian® Quartz are encapsulated by polymerization of unsaturated polyester resin in the manufacturing process.

Corian® Quartz surfacing material in its final form is an article, is nontoxic and non-allergic to humans.

FERRIC OXIDE YELLOW (FERRIC OXIDE YELLOW)

ID: 51274-00-1

#: 0.0000 - 0.5000 GS: LT-UNK RC: None NANO: No ROLE: Pigment/Colorant

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

SUBSTANCE NOTES: Corian® Quartz is comprised of reacted monomers and resins, natural quartz particles, recycled glass and colorants, and manufactured in the form of slabs in various gauges. The material inputs for Corian® Quartz are encapsulated by polymerization of unsaturated polyester resin in the manufacturing process. Corian® Quartz surfacing material in its final form is an article, is nontoxic and non-allergic to humans.

UNDISCLOSED

#: 0.0000 - 2.0000 GS: LT-UNK RC: None NANO: No ROLE: UV Absorber

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

SUBSTANCE NOTES: Corian® Quartz is comprised of reacted monomers and resins, natural quartz particles, recycled glass and colorants, and manufactured in the form of slabs in various gauges. The material inputs for Corian® Quartz are encapsulated by polymerization of unsaturated polyester resin in the manufacturing process. Corian® Quartz surfacing material in its final form is an article, is nontoxic and non-allergic to humans.

IRON OXIDE RED

ID: 1309-37-1

#: 0.0000 - 1.0000 GS: BM-2 RC: None NANO: No ROLE: Pigment/Colorant

HAZARDS: AGENCY(IES) WITH WARNINGS:
CANCER MAK Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Corian® Quartz is comprised of reacted monomers and resins, natural quartz particles, recycled glass and colorants, and manufactured in the form of slabs in various gauges. The material inputs for Corian® Quartz are encapsulated by polymerization of unsaturated polyester resin in the manufacturing process. Corian® Quartz surfacing material in its final form is an article, is nontoxic and non-allergic to humans.

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

GreenGuard - Gold (previously Children & Schools)

CERTIFYING PARTY: Third Party ISSUE DATE: 2006-11-07 EXPIRY DATE: 2018-11-07 CERTIFIER OR LAB: UL Environment
APPLICABLE FACILITIES: All
CERTIFICATE URL: <http://productguide.ulenvironment.com/ProductDetail.aspx>

CERTIFICATION AND COMPLIANCE NOTES: Certification is renewed on an annual basis. The renew cycle date is November 7th. Corian® Quartz and accessories have been evaluated under the GREENGUARD certification program since 2006. UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings: Building products and interior finishes are determined compliant in

accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 using an Office Environment. Commercial furniture and furnishings are tested in accordance with ANSI/BIFMA M7.1-2011(R2016) and determined to comply with ANSI/BIFMA X7.1-2011(R2016) and ANSI/BIFMA e3-2014e Credit 7.6.1, 7.6.2, and 7.6.3 in an Open Plan Office Environment. Products also determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 in the office environment. Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818, Section 7.1 and 7.2.

VOC EMISSIONS

**GreenGuard - Indoor Air
Quality Certified**

CERTIFYING PARTY: Third Party	ISSUE DATE: 2006-11-07	EXPIRY DATE: 2018-11-07	CERTIFIER OR LAB: UL Environment
APPLICABLE FACILITIES: All			
CERTIFICATE URL: https://spot.ulprospector.com/en/na/BuiltEnvironment/Detail/32827/690994/Corian-Quartz-Surface?			

CERTIFICATION AND COMPLIANCE NOTES: Certification is renewed on an annual basis. The renew cycle date is November 7th. Corian® Quartz and accessories have been evaluated under the GREENGUARD certification program since 2006. UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Building materials are determined compliant in accordance with an Office environment with an air change of 0.68 hr⁻¹ and a loading of 3.20 m². Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.

LCA

**Environmental Product Declaration (EPD)
by UL - Industry Generic**

CERTIFYING PARTY: Third Party	ISSUE DATE: 2017-07-11	EXPIRY DATE: 2022-07-11	CERTIFIER OR LAB: UL Environment
APPLICABLE FACILITIES: Coiran® Quartz is produced at facilities in Canada and China. Production is weighted by North American sales. At the facilities, raw materials are mixed, cast, cured, and molded into slabs. The slabs are then polished before being packaged for distribution.			
CERTIFICATE URL: http://my.ulenvironment.com/productDocuments/443/15/104.1_DuPont_EP_D_Zodiaq%20Quartz.pdf			

CERTIFICATION AND COMPLIANCE NOTES:

MATERIAL CONTENT MIGRATION

NSF/ANSI Standard 51 - Food equipment Materials

CERTIFYING PARTY: Third Party	ISSUE DATE: 2003-06-30	EXPIRY DATE: 2022-12-31	CERTIFIER OR LAB: NSF International
APPLICABLE FACILITIES: All			
CERTIFICATE URL: http://www.nsf.org/			

CERTIFICATION AND COMPLIANCE NOTES: Most colors of Corian® Quartz are NSF/ANSI Standard 51 Certified for the strictest level – Food Zone. Certification is renewed annually.

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.

DUPONT™ JOINT ADHESIVE

HPD URL: <https://hpdrepository.hpd-collaborative.org/repository/HPDs/3675-20150924112509.pdf>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

DuPont™ Joint Adhesive is comprised of Component A and Component B. DuPont™ Joint Adhesive for use with quartz and solid surfaces is produced in a range of specific colors to match with Corian® solid surface and Corian® Quartz surfaces. Color-coordinated DuPont™ Joint Adhesive bonds DuPont™ Corian® solid surface with inconspicuous seams. This results in a smooth surface that enables you to create large designs fashioned from a single element.

CORIAN® JOINT ADHESIVE

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Corian® Joint Adhesive, a methacrylate-based adhesive is non-sagging and thixotropic and provides very good adhesion for Quartz and Solid Surface surfacing materials. CORIAN® JOINT ADHESIVE is available in 50 mL and 470 mL cartridges and a variety of colors which are color-coordinated With Corian® Quartz And Corian® Solid Surface. Corian® Joint Adhesive meets the low VOC emission limit requirements of South Coast Air Quality Management District (SQAMD) Rule 1168. Corian® Joint Adhesive is UL Environment GREENGUARD and GREENGUARD Gold certified.

CORIAN® SOLID SURFACE

HPD URL: https://hpcrepository.hpd-collaborative.org/repository/HPDs/publish_194_Corian_1508450354.pdf

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Corian® acrylic solid surface is a solid, nonporous, homogeneous surfacing material, composed of $\approx 1/3$ acrylic resin (also known as polymethyl methacrylate or PMMA), and $\approx 2/3$ natural minerals. These minerals are composed of aluminum trihydrate (ATH) derived from bauxite. Corian® is an advanced composite product used as an architectural and design material in a variety of applications. Corian® solid surface offers design versatility, functionality and durability. Supplied in sheets and shapes, Corian® solid surface can be fabricated with conventional woodworking tools into virtually any design. In its finished form Corian® acrylic solid surface material is an article, is nontoxic and non-allergic to humans. Corian® solid surface is NSF/ANSI Standard 51 Certified for Food Zone applications, NGBS GREEN CERTIFIED™, and is GREENGUARD GOLD and GREENGUARD certified.

Section 5: General Notes

Corian® Quartz is certified by UL Environment for low chemical emissions in accordance with UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Building products and interior finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.1-2010 using a Classroom Environment. Commercial furniture and furnishings are tested in accordance with ANSI/BIFMA M7.1-2011(R2016) and determined to comply with ANSI/BIFMA X7.1-2011(R2016) and ANSI/BIFMA e3-2014e Credit 7.6.1, 7.6.2, and 7.6.3 in an Open Plan Office Environment. Products also determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.1-2010 in the office environment. Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2. LEED v4 Materials and Resources (MR Credit) Building Product Disclosure and Optimization - Environmental Product Declarations (EPD) are now available. DuPont is leading the industry by providing EPDs for Corian® Solid Surface and Corian® Quartz products and contributing towards LEED v4 in this new Credit category.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **E. I. du Pont de Nemours and Company**
ADDRESS: **Safety & Construction, Corian® Design**
Chestnut Run Plaza, 974 Centre Road
Wilmington DE 19805, United States
WEBSITE: **Chestnut Run Plaza, 974 Centre Road, P. O.**
Box 2915

CONTACT NAME: **Michael A. Banks**
TITLE: **Dr.**
PHONE: **716-879-4610**
EMAIL: **michael-arthur.banks@dupont.com**

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

GLO Global warming
MAM Mammalian/systemic/organ toxicity
MUL Multiple hazards

PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

NEU Neurotoxicity

OZO Ozone depletion

PBT Persistent Bioaccumulative Toxic

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 (insufficient 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.