View Dynamic Glass by View Inc.

Health Product Declaration v2.1

created via: HPDC Online Builder

CLASSIFICATION: 08 56 00 Special Function Windows

PRODUCT DESCRIPTION: Dynamic Glass is an IGU product, containing an electrochromic layer on one surface of the glass, which tints when an electrical current is applied. There electrochromic layer is deposited via a vacuum-based physical vapor deposition process. The other components in the IGU include uncoated glass, a foam spacer, sealant, wiring, and argon gas. The function of the Dynamic Glass product is to provide a transparent surface on the exterior or a building that is able to tint in response to outdoor conditions, providing comfort and efficiency to building occupants while maintaining views of the outdoor environment.

Section 1: Summary

Nested Method / Material 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 7 of 7 Materials

Explanation(s) provided for Residuals/Impurities?

- (•) Yes ( ) No

Are All Substances Above the Threshold Indicated:

Characterized (•) Yes ( ) No

Percent Weight and Role Provided?

Screened ( ) Yes (•) No

Using Priority Hazard Lists with Results Disclosed?

Identified ( ) Yes (•) No

Name and Identifier Provided?

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

FLAT GLASS [SOLID / PLATE GLASS LT-UNK] BLACK SILICONE [SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED BM-2 CALCIUM CARBONATE BM-3 QUARTZ LT-1 | CAN CYCLOMETHICONE LT-UNK] SUPER T-SPACER [UNDISCLOSED LT-UNK | PBT UNDISCLOSED LT-UNK | MUL | PBT UNDISCLOSED LT-P1 | DEL | PBT | MUL] ARGON GAS [ARGON LT-UNK] SILICONE CURING AGENT [POLYDIMETHYLSILOXANES LT-P1 | PBT METHYLTRIMETHOXYSILANE BM-1 GLYCIDOXYPROPYLTRIMETHOXYSILANE AND METHYLTRIMETHOXYSILANE LT-UNK CARBON BLACK LT-1 | CAN SILANE, DICHLORODIMETHYL-, REACTION PRODUCTS WITH SILICA LT-UNK (3-AMINOPROPYL)TRIETHOXYSILANE LT-UNK | SKI STANNANE, DIMETHYLBIS[(1-OXONEODECYL)OXY]- LT-UNK METHANOL BM-1 | DEL | MAM | END | MUL | REP | PHY] PIGTAIL CABLE ASSEMBLY [POLYVINYL CHLORIDE (PVC) LT-P1 | RES HIGH-IMPACT POLYSTYRENE LT-UNK BRASS NoGS COPPER LT-UNK] GLASS COATING [TUNGSTEN METAL LT-UNK NICKEL LT-1 | CAN | RES | SKI | MAM | MUL LITHIUM LT-P1 | SKI | MUL | REP | PHY DIINDIUM TRIOXIDE LT-P1 | CAN TIN OXIDE LT-UNK]

Number of Greenscreen BM-4/BM3 contents ... 1

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

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This product has been fully screened. Several CAS numbers were unavailable in the HPD database, but have been screened manually and have no associated hazards. Additionally, several proprietary substances were screened by the supplier against the relevant hazard lists, and these hazards have been manually added to this HPD. Residuals were considered for all materials and added where they were present above the stated disclosure threshold. The scope of this HPD is all Dynamic Glass products produced by View, Inc.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*

VOC emissions: VOC Emissions
LCA: Environmental Product Declaration

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- ○ Yes
- ◉ No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2018-06-13
PUBLISHED DATE: 2018-06-20
EXPIRY DATE: 2021-06-13

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

FLAT GLASS

%: 92.3660 **HPD URL:**

MATERIAL THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals are considered and are below the disclosure threshold.

OTHER MATERIAL NOTES: Flat glass comprises the bulk of the product. Residuals are considered and are below the disclosure threshold.

SOLID / PLATE GLASS

ID: 65997-17-3

%: 100.0000 - 100.0000 GS: LT-UNK RC: None NANO: No ROLE: Structural Glass

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

SUBSTANCE NOTES: The range does not vary and this substance comprises the entire material.

BLACK SILICONE

%: 5.4100 **HPD URL:**

MATERIAL THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals are considered and are below the disclosure threshold.

OTHER MATERIAL NOTES: Silicone used as sealant in the product. Residuals are considered and are below the disclosure threshold.

SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED

ID: 70131-67-8

%: 50.0000 - 60.0000 GS: BM-2 RC: None NANO: No ROLE: Base Sealant

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

SUBSTANCE NOTES: Composition presented as a range to protect supplier recipe.

CALCIUM CARBONATE

ID: 471-34-1

%: **40.0000 - 50.0000** GS: **BM-3** RC: **None** NANO: **No** ROLE: **Filler**

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

SUBSTANCE NOTES: Composition presented as a range to protect supplier recipe.

QUARTZ

ID: **14808-60-7**

%: **0.0000 - 1.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **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
CANCER	Australia - GHS	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: Composition presented as a range to protect supplier recipe.

CYCLOMETHICONE

ID: **69430-24-6**

%: **0.0000 - 1.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Additive**

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

SUBSTANCE NOTES: Composition presented as a range to protect supplier recipe.

SUPER T-SPACER

%: 0.9800 **HPD URL:**

MATERIAL THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals are considered and are below the disclosure threshold.

OTHER MATERIAL NOTES: Spacer used to separate glass lites. Residuals are considered and are below the disclosure

threshold.

UNDISCLOSED

%: **30.0000 - 50.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Filler**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans

SUBSTANCE NOTES: This substance is considered proprietary and is undisclosed but was screened against the HPD Hazard lists; the associated hazards are disclosed above.

UNDISCLOSED

%: **30.0000 - 50.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Desiccant**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans

SUBSTANCE NOTES: This substance is considered proprietary and is undisclosed but was screened against the HPD Hazard lists; the associated hazards are disclosed above.

UNDISCLOSED

%: **30.0000 - 50.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Polymer**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
DEVELOPMENTAL	MAK	Pregnancy Risk Group B
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: This substance is considered proprietary and is undisclosed but was screened against the HPD Hazard lists; the associated hazards are disclosed above.

ARGON GAS %: 0.6360 HPD URL:

MATERIAL THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals are considered and are below the disclosure threshold.

OTHER MATERIAL NOTES: Argon gas used to fill the IGU cavity. Residuals are considered and are below the disclosure threshold.

ARGON

ID: 7440-37-1

%: 100.0000 - 100.0000 GS: LT-UNK RC: None NANO: No ROLE: IGU Desiccant

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

SUBSTANCE NOTES: Substance range does not vary.

SILICONE CURING AGENT

%: 0.2570 HPD URL:

MATERIAL THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals are considered and are below the disclosure threshold.

OTHER MATERIAL NOTES: Curing Agent for Base Silicone. Residuals are considered and are below the disclosure threshold.

POLYDIMETHYLSILOXANES

ID: 63148-62-9

%: 50.0000 - 60.0000 GS: LT-P1 RC: None NANO: No ROLE: Polymeric Silicone

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans

SUBSTANCE NOTES: Composition presented as a range to protect supplier recipe.

METHYLTRIMETHOXYSILANE

ID: 1185-55-3

%: 10.0000 - 20.0000 GS: BM-1 RC: None NANO: No ROLE: Crosslinker

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

SUBSTANCE NOTES: Composition presented as a range to protect supplier recipe.

GLYCIDOXYPROPYLTRIMETHOXYSILANE AND METHYLTRIMETHOXYSILANE

ID: 474530-85-3

%: 10.0000 - 20.0000 GS: LT-UNK RC: None NANO: No ROLE: Additive

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

SUBSTANCE NOTES: Composition presented as a range to protect supplier recipe.

CARBON BLACK

ID: 1333-86-4

%: 10.0000 - 20.0000 GS: LT-1 RC: None NANO: No ROLE: Pigment

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: Composition presented as a range to protect supplier recipe.

SILANE, DICHLORODIMETHYL-, REACTION PRODUCTS WITH SILICA

ID: 68611-44-9

%: 1.0000 - 5.0000 GS: LT-UNK RC: None NANO: No ROLE: Reactant

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

SUBSTANCE NOTES: Composition presented as a range to protect supplier recipe.

(3-AMINOPROPYL)TRIETHOXYSILANE

ID: 919-30-2

%: 1.0000 - 3.0000 GS: LT-UNK RC: None NANO: No ROLE: Additive

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage

SUBSTANCE NOTES: Composition presented as a range to protect supplier recipe.

STANNANE, DIMETHYLBIS[(1-OXONEODECYL)OXY]-

ID: 68928-76-7

%: 0.0000 - 1.0000 GS: LT-UNK RC: None NANO: No ROLE: Additive

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

SUBSTANCE NOTES: Composition presented as a range to protect supplier recipe.

METHANOL

ID: 67-56-1

%: 0.0000 - 1.0000 GS: BM-1 RC: None NANO: No ROLE: Additive

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
MAMMALIAN	EU - GHS (H-Statements)	H311 - Toxic in contact with skin
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
ORGAN TOXICANT	EU - GHS (H-Statements)	H370 - Causes damage to organs
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour

SUBSTANCE NOTES: Composition presented as a range to protect supplier recipe.

PIGTAIL CABLE ASSEMBLY

%: 0.2490 HPD URL:

MATERIAL THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals are considered and are below the disclosure threshold.

OTHER MATERIAL NOTES: Pigtail cable assembly used to connect product. Residuals are considered and are below the disclosure threshold.

POLYVINYL CHLORIDE (PVC)

ID: 9002-86-2

%: 35.0000 - 40.0000 GS: LT-P1 RC: None NANO: No ROLE: Wire Jacket

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Substance used as jacketing for the wire in the pigtail assembly

HIGH-IMPACT POLYSTYRENE

ID: 9003-55-8

%: 20.0000 - 30.0000 GS: LT-UNK RC: None NANO: No ROLE: Plastic Jacket

HAZARDS:	AGENCY(IES) WITH WARNINGS:	

None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Substance used as plastic shell in pigtail assembly

BRASS

ID: 12597-71-6

%: 15.0000 - 20.0000 GS: NoGS RC: None NANO: No ROLE: Screw and Contact Terminals

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

SUBSTANCE NOTES: Substance used as screws and contact terminals

COPPER

ID: 7440-50-8

%: 15.0000 - 20.0000 GS: LT-UNK RC: None NANO: No ROLE: Conductor

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

SUBSTANCE NOTES: Substance is used as the conductor in the wire.

GLASS COATING

%: 0.0000 - 0.0500 HPD URL:

MATERIAL THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals are considered and are below the disclosure threshold.

OTHER MATERIAL NOTES: Composition presented as a range to protect proprietary recipe. Residuals are considered and are below the disclosure threshold.

TUNGSTEN METAL

ID: 7440-33-7

%: 0.0000 - 100.0000 GS: LT-UNK RC: None NANO: No ROLE: Electrochromic Coating

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

SUBSTANCE NOTES: Composition presented as a range to protect proprietary recipe.

NICKEL

ID: 7440-02-0

%: 0.0000 - 100.0000 GS: LT-1 RC: None NANO: No ROLE: Electrochromic Coating

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans

CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: Composition presented as a range to protect proprietary recipe.

LITHIUM

ID: 7439-93-2

%: **0.0000 - 100.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Electrochromic Coating**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously

SUBSTANCE NOTES: Composition presented as a range to protect proprietary recipe.

DIINDIUM TRIOXIDE

ID: 1312-43-2

%: **0.0000 - 100.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Electrochromic Coating**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	Japan - GHS	Carcinogenicity - Category 1B

SUBSTANCE NOTES: Composition presented as a range to protect proprietary recipe.

TIN OXIDE

ID: **1332-29-2**

%: **0.0000 - 100.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Electrochromic Coating**

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

SUBSTANCE NOTES: Composition presented as a range to protect proprietary recipe.

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 — **VOC Emissions**

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

ISSUE DATE: 0000-01-01

EXPIRY DATE:

CERTIFIER OR LAB: None

CERTIFICATION AND COMPLIANCE NOTES: Inherently non- emitting source per LEED®

LCA — **Environmental Product Declaration**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Olive Branch, MS
CERTIFICATE URL:

ISSUE DATE: 2017-12-06

EXPIRY DATE: 2022-12-05

CERTIFIER OR LAB: UL Environment

CERTIFICATION AND COMPLIANCE NOTES: No public EPD link available. Document will be provided upon request.

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

This Health Product Declaration was developed by Sustainable Solutions Corporation of Royersford, PA.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **View Inc.**
ADDRESS: **195 S. Milpitas Blvd**
Milpitas California 95035, United States
WEBSITE: **http://viewglass.com/**

CONTACT NAME: **Shalini Gali**
TITLE: **High Performance Building Specialist**
PHONE: **408-263-9200**
EMAIL: **shalini.gali@viewglass.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
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
MAM Mammalian/systemic/organ toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
LAN Land Toxicity
NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement)
BM-2 Benchmark 2 (use but search for safer substitutes)
BM-1 Benchmark 1 (avoid - chemical of high concern)
BM-U Benchmark Unspecified (insuficient data to benchmark)
LT-P1 List Translator Possible Benchmark 1
LT-1 List Translator Likely Benchmark 1
LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
NoGS Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms
Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- *a method for the assessment of exposure or risk associated with product handling or use,*
- *a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.*

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.