HI-MACS® Acrylic Solid Surface by LG Hausys America, Inc.

Health Product Declaration v2.1

created via: HPDC Online Builder

CLASSIFICATION: 06 61 00 Wood, Plastics, and Composites; 06 61 16 Solid Surfacing Fabrications; 09 77 00 Special Wall Surfacing; 12 36 61.16 Solid Surfacing Countertops

PRODUCT DESCRIPTION: HI-MACS® acrylic solid surface is a homogeneous, non-porous decorative surfacing material manufactured in solid 12 mm, 9 mm, and 6 mm thick sheets for horizontal and vertical applications, and in various shapes as sinks and lavatory bowls.HI-MACS is NSF/ANSI 51 Certified for "All Food Contact Types". HI-MACS® is composed of natural minerals (primarily alumina trihydrate [ATH]) from bauxite, and acrylic resin (methyl methacrylate [MMA]) and polymethyl methacrylate [PMMA]). HI-MACS® is non-toxic and non-allergenic. HI-MACS® is rated "Class 'A'" using the ASTM E84 flammability test, and is Greenguard and Greenguard Gold certified as a Low VOC material.

Section 1: Summary

CONTENT INVENTORY

Inventory Reporting Format

Nested Materials Method
 Basic Method

Threshold Disclosed Per

C Material

Product

C 100 ppm O 1,000 ppm C Per GHS SDS C Per OSHA MSDS C Other

Threshold level

Residuals/Impurities

- Considered
 Partially Considered
 Not Considered
- Explanation(s) provided for Residuals/Impurities? • Yes • No

Basic Method / Product Threshold

Are All Substances Above the Threshold Indicated:

Characterized Percent Weight and Role Provided?	⊙ Yes ⊖ No
Screened	• Yes • No
Identified	O Yes O 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

HI-MACS® ACRYLIC SOLID SURFACE [ALUMINA TRIHYDRATE BM-2 | RES METHYL METHACRYLATE LT-P1 | RES | PHY | SKI | END POLYMETHYL METHACRYLATE (PMMA) LT-P1 | RES TITANIUM DIOXIDE LT-1 | CAN | END CARBON BLACK LT-1 | CAN 5,12-DIHYDROQUINO(2,3-B)ACRIDINE-7,14-DIONE LT-UNK BENZOIC ACID, 2,3,4,5-TETRACHLORO-6-CYANO-, METHYL ESTER, REACTION PRODUCTS WITH P-PHENYLENEDIAMINE AND SODIUM METHOXIDE LT-UNK UNDISCLOSED LT-UNK | SKI UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-P1 | MUL UNDISCLOSED NoGS BIS(2-ETHYLHEXYL) TEREPHTHALATE BM-3]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT VOC Content data is not applicable for this product category. Number of Greenscreen BM-4/BM3 contents ... 1 Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1 Nanomaterial ... No INVENTORY AND SCREENING NOTES: Substances' are listed as percentage of weight.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings. VOC emissions: GreenGuard - Gold (previously Children & Schools)

LCA: Environmental Product Declaration (EPD) by NSF Recycled content: SCS Recycled Content Certification - Recycling Programs

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified? O Yes O No PREPARER: Self-Prepared VERIFIER: VERIFICATION #: SCREENING DATE: 2018-10-09 PUBLISHED DATE: EXPIRY DATE: 2021-10-09 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

HI-MACS® ACRYLIC SOLID SURFACE

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: HI-MACS® solid surface sheet and shape products are manufactured using inert mineral fillers, monomers and resins in combination with colorants. In its finished form it is an encapsulated material that is nontoxic and nonallergenic for humans.

OTHER PRODUCT NOTES: HI-MACS® acrylic solid surface is composed of natural minerals (primarily alumina trihydrate [ATH]), acrylic resin (methyl methacrylate [MMA]), and polymethyl methacrylate [PMMA]). HI-MACS® "Eden Plus"-series products Harmony, Pause, Ripe Cotton, Pebble Pearl, Oatmeal, Simplicity, Rest, Relieve, Lemon Grass, Portland, and Saddlebow contain 6% pre-consumer recycled content; Honeysuckle contains 10% recycled content. Recycled content is from trimmings and/or off-spec material.

RESPIRATORY	AOEC - Asthmagens		Asthmagen (Rs) - sensitize	er-induced	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
%: 45.0000 - 70.0000	GS: BM-2	RC: None	NANO: NO	ROLE: Inert Filler	
ALUMINA TRIHYDRATE					ID: 21645-51-2

SUBSTANCE NOTES: Synonyms for Alumina Trihydrate, include ATH, Aluminum Trihydrate, Aluminum Trihydroxide, Alumina Hydroxide. ATH is a non-toxic, nonhalogen fire retardant and smoke suppressant, chemically inert, filler material. In its manufactured form HI-MACS® is non-toxic and non-allergenic to humans.

METHYL METHACRYLATE					ID: 80-62-6
%: 20.0000 - 35.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Acrylic resin binder	
HAZARDS:	AGENCY(IES) WITH WARNINGS	:			
RESPIRATORY	AOEC - Asthmagens		Asthmag	gen (Rs) - sensitizer-induced	
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statemer	its)	H225 - H	lighly flammable liquid and vapour	
SKIN IRRITATION	EU - GHS (H-Statemer	its)	H315 - C	Causes skin irritation	
SKIN SENSITIZE	EU - GHS (H-Statemer	its)	H317 - N	Nay cause an allergic skin reaction	
ENDOCRINE	TEDX - Potential Endo	crine Disruptors	Potentia	I Endocrine Disruptor	
SKIN SENSITIZE	МАК		Sensitizi	ing Substance Sh - Danger of skin sensitization	

SUBSTANCE NOTES: Methyl methacrylate (MMA) is a polymerizable monomer that is widely used in the manufacture of methacrylate resins and plastic cast sheet for glazing, building panels, bathroom fixtures, and medical prosthetic devices. Methyl methacrylate (MMA) is an organic compound. This colorless liquid is a monomer produced on a large scale for the production of poly(methyl methacrylate) (PMMA) In its manufactured form HI-MACS® is non-toxic and non-allergenic to humans.

POLYMETHYL METHACRYLATE (PMMA) ID: 9011-14-7				
%: 0.0000 - 15.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Polymer
HAZARDS:	AGENCY(IES) WITH WARNINGS:			

RESPIRATORY

AOEC - Asthmagens

ID: 13463-67-7

SUBSTANCE NOTES: PMMA is a non-linked polymer component in acrylic solid surface material. In its manufactured form HI-MACS® is non-toxic and non-allergenic to humans.

TITANIUM DIOXIDE

%: 0.0000 - 3.0000	GS: LT-1	RC: None	NANO: NO	ROLE: Colorant	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
CANCER	US CDC - Occupational C	Carcinogens	Occupational Carcinogen		
CANCER	CA EPA - Prop 65		Carcinogen - specific to che	emical form or exposure route	
CANCER	IARC		Group 2B - Possibly carcino occupational sources	genic to humans - inhaled from	
ENDOCRINE	TEDX - Potential Endocrir	ne Disruptors	Potential Endocrine Disrupto	or	
CANCER	МАК		MAK Carcinogen Group 3A - Evidence of c sufficient to establish MAK/BAT value		ence of carcinogenic effects but not BAT value
CANCER	МАК		Carcinogen Group 4 - Non-ç MAK/BAT levels	genotoxic carcinogen with low risk under	

SUBSTANCE NOTES: Titanium dioxide is carried in BIS(2-Ethylhexyl) Terephthalate, also described as DOTP (Dioctyl Terephthalate), an environmentally friendly phthalate-free carrier which is used to reduce or eliminate respiable dust hazards of the colorants. In its manufactured form HI-MACS® is non-toxic and non-allergenic to humans.

CARBON BLACK					ID: 1333-86-4
%: 0.0000 - 3.0000	GS: LT-1	RC: None	NANO: NO	ROLE: Colorant	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
CANCER	US CDC - Occupational Carcinogens		Occupational Carcinogen		
CANCER	CA EPA - Prop 65		Carcinogen - specific to che	mical form or exposure route	
CANCER	IARC		Group 2B - Possibly carcino occupational sources	genic to humans - inhaled fro	m
CANCER	МАК		Carcinogen Group 3B - Evid sufficient for classification	ence of carcinogenic effects	but not

SUBSTANCE NOTES: Carbon Black is carried in BIS(2-Ethylhexyl) Terephthalate, also described as DOTP (Dioctyl Terephthalate), an environmentally friendly phthalatefree carrier which is used to reduce or eliminate respiable dust hazards of the colorants. In its manufactured form HI-MACS® is non-toxic and non-allergenic to humans.

5,12-DIHYDROQUINO(2,3-B)ACRIDINE-7,14-DIONE					ID: 1047-16-1
%: 0.0000 - 3.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Colorant	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPD Priority lists				

SUBSTANCE NOTES: Also known as Quinacridone it is carried in BIS(2-Ethylhexyl) Terephthalate, also described as DOTP (Dioctyl Terephthalate), an environmentally friendly phthalate-free carrier which is used to reduce or eliminate respiable dust hazards of the colorants. In its manufactured form HI-MACS® is non-toxic and non-allergenic to humans.

BENZOIC ACID, 2,3,4,5-TETRACHLORO-6-CYANO-, METHYL ESTER, REACTION PRODUCTS WITH P-PHENYLENEDIAMINE AND SODIUM METHOXIDE

ID: 106276-80-6

0.0000 - 3.0000	GS: LT-UNK			RC: NONE NANO: I	NO ROLE: COloran
HAZARDS:	AGENCY(IES) WITH WARNINGS	3:			
None Found	No warnings found on	HPD Priority lists			
SUBSTANCE NOTES: Benzoic acid is free carrier which is used to rec humans.	s carried in BIS(2-Ethylhexyl) T duce or eliminate respiable du	erephthalate, also des st hazards of the color	cribed as DOTP (Diocty ants. In its manufacture	rl Terephthalate), an environme ed form HI-MACS® is non-toxic	entally friendly phthala c and non-allergenic t
0.0000 - 2.0000	gs: LT-UNK	RC: None	NANO: NO	ROLE: Cross-linking agent	
HAZARDS:	AGENCY(IES) WITH WARNINGS	3:			
SKIN SENSITIZE	EU - GHS (H-Statemer	nts)	H317 - May	cause an allergic skin reaction	
SKIN SENSITIZE	МАК		Sensitizing S	Substance Sh - Danger of skin ser	nsitization
IDISCLOSED 0.0000 - 0.5000	GS: LT-P1	RC: None	NANO: NO	ROLE: Curing Agent	
HAZARDS:					
	AGENCI (IES) WITH WARNINGS	ð:			
MULTIPLE	German FEA - Substar	nces Hazardous to Wate	rs Class 2 - Ha	zard to Waters	
MULTIPLE SUBSTANCE NOTES: When curing ag allergenic to humans.	German FEA - Substar	nces Hazardous to Wate	rs Class 2 - Ha e acrylic resin. In its ma	zard to Waters	non-toxic and non-
MULTIPLE SUBSTANCE NOTES: When curing ag allergenic to humans. NDISCLOSED 0.0000 - 0.5000	German FEA - Substar gents activate they facilitate re GS: LT-P1	eactions as a part of th	e acrylic resin. In its ma	zard to Waters anufactured form HI-MACS® is ROLE: Curing Agent	non-toxic and non-
MULTIPLE SUBSTANCE NOTES: When curing agailergenic to humans. NDISCLOSED 0.0000 - 0.5000 HAZARDS:	German FEA - Substar gents activate they facilitate re GS: LT-P1	Exactions as a part of the RC: None	e acrylic resin. In its ma	zard to Waters anufactured form HI-MACS® is ROLE: Curing Agent	non-toxic and non-
MULTIPLE SUBSTANCE NOTES: When curing agallergenic to humans. NDISCLOSED 0.0000 - 0.5000 HAZARDS: MULTIPLE	German FEA - Substar gents activate they facilitate re GS: LT-P1 AGENCY(IES) WITH WARNINGS German FEA - Substar	RC: None	rs Class 2 - Ha e acrylic resin. In its ma NANO: No	zard to Waters anufactured form HI-MACS® is ROLE: Curing Agent zard to Waters	non-toxic and non-
MULTIPLE SUBSTANCE NOTES: When curing ag allergenic to humans. NDISCLOSED CO.0000 - 0.5000 HAZARDS: MULTIPLE SUBSTANCE NOTES: When curing ag allergenic to humans.	German FEA - Substar gents activate they facilitate re GS: LT-P1 AGENCY(IES) WITH WARNINGS German FEA - Substar gents activate they facilitate re	RC: None	e acrylic resin. In its ma NANO: No s Class 2 - Ha e acrylic resin. In its ma	zard to Waters anufactured form HI-MACS® is ROLE: Curing Agent zard to Waters anufactured form HI-MACS® is	non-toxic and non-
MULTIPLE SUBSTANCE NOTES: When curing ag allergenic to humans. NDISCLOSED 0.0000 - 0.5000 HAZARDS: MULTIPLE SUBSTANCE NOTES: When curing ag allergenic to humans. NDISCLOSED	German FEA - Substar gents activate they facilitate re GS: LT-P1 AGENCY(IES) WITH WARNINGS German FEA - Substar gents activate they facilitate re	RC: None	e acrylic resin. In its ma NANO: No 's Class 2 - Ha e acrylic resin. In its ma	zard to Waters anufactured form HI-MACS® is ROLE: Curing Agent zard to Waters anufactured form HI-MACS® is	non-toxic and non-
MULTIPLE SUBSTANCE NOTES: When curing agallergenic to humans. NDISCLOSED 0.0000 - 0.5000 HAZARDS: MULTIPLE SUBSTANCE NOTES: When curing agallergenic to humans. NDISCLOSED 0.0000 - 0.5000 MULTIPLE SUBSTANCE NOTES: When curing agallergenic to humans. NDISCLOSED 0.0000 - 0.5000	German FEA - Substar gents activate they facilitate re GS: LT-P1 AGENCY(IES) WITH WARNINGS German FEA - Substar gents activate they facilitate re	RC: None	e acrylic resin. In its ma NANO: No s Class 2 - Ha e acrylic resin. In its ma e acrylic resin. In its ma	zard to Waters anufactured form HI-MACS® is ROLE: Curing Agent anufactured form HI-MACS® is ROLE: Curing Agent	non-toxic and non-
MULTIPLE SUBSTANCE NOTES: When curing agallergenic to humans. NDISCLOSED 0.0000 - 0.5000 MULTIPLE SUBSTANCE NOTES: When curing agallergenic to humans. NDISCLOSED 0.0000 - 0.5000 MULTIPLE SUBSTANCE NOTES: When curing agallergenic to humans. NDISCLOSED 0.0000 - 0.5000 MULTIPLE	German FEA - Substar gents activate they facilitate re GS: LT-P1 AGENCY(IES) WITH WARNINGS German FEA - Substar gents activate they facilitate re GS: NoGS AGENCY(IES) WITH WARNINGS	ERC: None RC: None RC: None RC: None RC: None	e acrylic resin. In its ma NANO: No e acrylic resin. In its ma class 2 - Ha e acrylic resin. In its ma	zard to Waters anufactured form HI-MACS® is ROLE: Curing Agent anufactured form HI-MACS® is ROLE: Curing Agent	non-toxic and non-
MULTIPLE SUBSTANCE NOTES: When curing agallergenic to humans. NDISCLOSED 0.0000 - 0.5000 MULTIPLE SUBSTANCE NOTES: When curing agallergenic to humans. NDISCLOSED 0.0000 - 0.5000 MULTIPLE SUBSTANCE NOTES: When curing agallergenic to humans. NDISCLOSED 0.0000 - 0.5000 MAZARDS: NONOOD - 0.5000 MAZARDS: None Found	German FEA - Substar gents activate they facilitate re GS: LT-P1 AGENCY(IES) WITH WARNINGS German FEA - Substar gents activate they facilitate re GS: NoGS AGENCY(IES) WITH WARNINGS No warnings found on	RC: None	e acrylic resin. In its ma NANO: No s Class 2 - Ha e acrylic resin. In its ma NANO: No	zard to Waters anufactured form HI-MACS® is ROLE: Curing Agent anufactured form HI-MACS® is ROLE: Curing Agent	non-toxic and non-

%: 0.0000 - 1.0000	GS: BM-3	RC: None	NANO: NO	ROLE: Additive for colorant	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPD Priority lists				

SUBSTANCE NOTES: Colorant additives enhance color and are carried in BIS(2-Ethylhexyl) Terephthalate, also described as DOTP (Dioctyl Terephthalate), is a common carrier for colorants. The use of DOTP delivers pigment dispersion including titanium dioxide and carbon black. It also reduces the respirable dust hazards of these colorants. It is an environmentally friendly phthalate-free carrier. In its manufactured form HI-MACS® is non-toxic and non-allergenic to humans.

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	Green((previo School	Guard - (usly Chi Is)	Gold Idren &
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All. CERTIFICATE URL: http://www.lghimacsusa.com/content/com.LG.file_depot.FileDepotFile/915/GREENGUARD_Gold_Certification_HI- MACS.pdf	ISSUE DATE: 2007- 08-13	EXPIRY DATE: 2019- 08-13	CERTIFIER OR LAB: UL Environment
CERTIFICATION AND COMPLIANCE NOTES: Cert #4007-420. UL 2818 - 2013 Gold Standard for Chemical Emissions for	Building	a Materi	als.

Finishes and Furnishings

LCA	Environmental Product Declaration (EPD) by NSF					
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All CERTIFICATE URL: http://info.nsf.org/Certified/Sustain/ProdCert/EPD10096.pdf CERTIFICATION AND COMPLIANCE NOTES: Declaration # EPD10096	ISSUE DATE: 2017-04-07	EXPIRY DATE: 2022-04-06	CERTIFIER OR LAB: NSF International			
RECYCLED CONTENT S	CS Recycled Content C	ertification - Recycling	g Programs			
CERTIFYING PARTY: Third Party	SUE DATE: 2018-02-01	XPIRY DATE: 2019-01-31	CERTIFIER OR LAB: SCS Global			

CERTIFYING PARTY: Third Party	ISSUE DATE: 2018-02-01	EXPIRY DATE: 2019-01-31	CERTIFIER OR LAB: SCS GIO
APPLICABLE FACILITIES: All			Services
CERTIFICATE URL:			
https://www.scsglobalservices.com/certified-green-			

products-guide

CERTIFICATION AND COMPLIANCE NOTES: HI-MACS Eden Collection products Awaken, Balance, Barley, Enchantment, Energy, Essence, Focus, Harmony, Imagination, Loyalty, Mature, Natural, Oatmeal, Poppy Seed, Pause, Pebble Pearl, Pearl White, Portland, Profound, Rest, Relieve, Saddlebow, Sand, Serenity, Silence, Simplicity, Stable, Tranquility, and Understanding are Certified to contain not less than 6% pre-consumer recycled content under SCS-MC-02807. HI-MACS Eden Collection products Cocoa, Honeysuckle, Ivy, Lemongrass, and Ripe Cotton are Certified to contain not less than 10% pre-consumer recycled content under SCS-MC-01491. HI-MACS Eden Collection products Birch Bark, Chestnut, Hickory, Mountain Ash, Pecan, Poplar, Sugar Maple and Walnut are Certified to contain not less than 35% pre-consumer recycled content under SCS-MC-02322.

🕂 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.

LG ADHESIVE

HPD URL: No HPD Available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

LG Adhesive, also called LG Joint Adhesive, is used to created inconspicuous seams when HI-MACS® materials are joined together to create larger or multi-plane designs. LG Adhesive is Greenguard Gold Certified for Low Chemical Emissions using the generally accepted UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes, and Furnishings. LG Adhesive is a two-part product available in 250 ml and 500 ml containers for manual or pneumatic dispensers.

Section 5: General Notes

HI-MACS® acrylic solid surface is Greenguard and Greenguard Gold Certified for Low VOC Emissions using the generally accepted UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes, and Furnishings (Certificate #4007-410). HI-MACS® complies with California Department of Public Health (CDPH) Standard Method V1.2-2017 using and Office and Classroom Environment. Additional product and environmental information for possible LEED v4 MR Credit, Building Peoduct Disclosure and Optimization - Environmental Product Declarations can be found in the HI-MACS® Environmental Product Declaration (EPD) #EPD10096 available at http://info.nsf.org/Certified/Sustain/ProdCert/EPD10096.pdf . HI-MACS® acrylic solid surface fabrications may also be found in the following Sections: 09 77 00 Special Wall Surfacing, 09 78 26 Plastic Interior Wall Paneling, 10 21 13.19 Plastic Toilet Compartments, 10 21 16.19 Plastic Shower and Dressing Compartments, 10 25 13 Patient Bed Service Walls, 12 26 23 Protective Wall Covering, 10 51 23 Plastic Lockers, 12 34 00 Manufactured Plastic Casework, 12 35 00 Specialty Casework, 12 36 00 Countertops. 12 36 61.12 Solid Surfacing Countertops

MANUFACTURER INFORMATION

MANUFACTURER: LG Hausys America, Inc. ADDRESS: 900 Circle 75 Parkway #1500 Atlanta GA 30339, United States WEBSITE: http://www.lghimacsusa.com/ CONTACT NAME: Richard Rudy TITLE: Technical Services Manager PHONE: 6785354116 EMAIL: rrudy@lghausys.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

GLO Global warming

MUL Multiple hazards

OZO Ozone depletion

NEU Neurotoxicity

MAM Mammalian/systemic/organ toxicity

PBT Persistent Bioaccumulative Toxic

Hazard Types

AQU Aquatic toxicity CAN Cancer DEV Developmental toxicity END Endocrine activity EYE Eye irritation/corrosivity GEN Gene mutation

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)

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 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

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)

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.