

CLASSIFICATION: 12 26 00 Furnishings: Interior Daylighting Devices

PRODUCT DESCRIPTION: The SolaMaster Series is a versatile line of tubular daylighting devices that capture natural light at the rooftop and transfer it into building interiors where daylighting has rarely been possible. The SolaMaster 330 DS is designed to maximize light output at any time of day. It effectively captures low-angle rays in the morning and late afternoon, and collects high-angle rays at midday for powerful performance. It is ideal for lighting expansive spaces with dropped ceilings where variances in light levels don't create an issue for occupants. This HPD covers the basic configuration of the SolaMaster 330 DS Closed Ceiling Daylighting System; additional options are listed in Section 4: Accessories.

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
One or more substances not screened using Priority Hazard Lists with results disclosed and/ or one or more Special Condition did not follow guidance.

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

SOLAMASTER 330 DS CLOSED CEILING DAYLIGHTING SYSTEM [2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER, POLYMER WITH ETHYL 2-PROPENOATE LT-UNK STEEL NoGS ALUMINUM LT-P1 | RES | PHY | END POLYISOCYANURATE FOAM LT-UNK POLYVINYL CHLORIDE (PVC) LT-P1 | RES LIMESTONE, CALCIUM CARBONATE LT-UNK SPECTRALIGHT INFINITY FILM Not Screened KRAFT PAPER NoGS POLYETHYLENE LT-UNK POLYPROPYLENE LT-UNK POLYBUTENE LT-UNK ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM) LT-UNK PENTANE LT-P1 | AQU | PHY | MAM | MUL METHYL METHACRYLATE LT-P1 | RES | PHY | SKI | END STYRENE, METHYL METHACRYLATE, BUTADIENE POLYMER LT-UNK PHENOL, 2-(5-CHLORO-2H-BENZOTRIAZOL-2-YL)-4,6-BIS(1,1-DIMETHYLETHYL)- LT-1 | PBT | MUL]

Number of Greenscreen BM-4/BM3 contents ... 0

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

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This HPD was completed in accordance with the HPD Standard version 2.1.1. More than 98% of substances present in this product have been Characterized and Screened for hazards. Less than 2% of the finished product system consists of materials that are proprietary to our suppliers, for which efforts to identify and screen the substances are ongoing. This HPD will be republished when all substances present at >1000 ppm of the finished product have been screened for hazards.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method – Not tested

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

Yes

No

PREPARER: **Self-Prepared**

VERIFIER:

VERIFICATION #:

SCREENING DATE: **2019-01-09**

PUBLISHED DATE: **2019-01-09**

EXPIRY DATE: **2022-01-09**



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

SOLAMASTER 330 DS CLOSED CEILING DAYLIGHTING SYSTEM

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were "Considered", as outlined in Emerging Best Practices. Residuals or impurities with the potential to be present at or above the Content Inventory Threshold indicated that return a GS score of BM-1, LT-1, LT-P1 or NoGS have been disclosed, based on information provided in supplier disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML).

OTHER PRODUCT NOTES: Substances listed are representative of the basic configuration of the SolaMaster 330 DS Closed Ceiling Daylighting System. Optional components are listed in Section 4: Accessories.

2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER, POLYMER WITH ETHYL 2-PROPENOATE

ID: 9010-88-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-01-09

#: 36.3000 - 42.3000

GS: LT-UNK

RC:

None

NANO:

No

ROLE: Outer Dome; Prismatic Diffuser Lens; Transition Box

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Acrylic Plastic. Other CASRN may include: 9008-29-1 [NoGS | NO].

STEEL

ID: 12597-69-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-01-09

#: 22.7000 - 33.8000

GS: NoGS

RC: PostC

NANO: No

ROLE: Flashing; Hardware

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Includes average 17% Post-Consumer recycled content. This substance is considered essentially inert for the purposes of Pharos toxics scoring (Pharos CML). Supplier SDS provides the following composition: >95% Iron [7439-89-6; LT-P1]; <2% Manganese [7439-96-5; LT-P1]; <1% Silicon [7440-21-3; LT-UNK]; <0.3% Aluminum [7429-90-5; LT-P1]; <0.3% Carbon [7440-44-0; LT-UNK]; <0.3% Molybdenum [7439-98-7; LT-UNK]; <0.25% Copper [7440-50-8; LT-UNK]; <0.15% Nickel [7440-02-0; LT-1]; <0.15% Chromium [7440-47-3; LT-P1]; <0.15% Phosphorus [7723-14-0; BM-2].

ALUMINUM

ID: 7429-90-5

%: **22.4000 - 26.2000**GS: **LT-P1**RC: **PostC** NANO: **No** ROLE: **Light Tracker Reflector; Reflective Tubing; Diffuser Frame; Reflective Sealing Tape; Hardware**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammable solid
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: Includes average 50% Post-Consumer recycled content. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with form-specific hazards such as Aluminum. Supplier SDS provides the following composition: <5% Copper [7440-50-8; LT-UNK]; <2% Nickel [7440-02-0; LT-1]; <1% Chromium Compounds, <0.5% Chromium [7440- 47-3; LT-P1]; <1% Antimony [7440-36-0; LT-1]; <1% Iron [7439-89-6; LT-P1]; <1% Molybdenum [7439-98-7; LT-UNK]; <0.5% Zinc [7440- 66-6; LT-P1].

POLYISOCYANURATE FOAMID: **9063-78-9**%: **1.7000 - 3.7000**GS: **LT-UNK**RC: **None** NANO: **No** ROLE: **Flashing Insulator, Curb Insulator**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES:

POLYVINYL CHLORIDE (PVC)ID: **9002-86-2**%: **1.0000 - 3.0000**GS: **LT-P1**RC: **None** NANO: **No** ROLE: **Tube Ring**

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

SUBSTANCE NOTES: Supplier SDS confirms vinyl chloride monomer <0.001%. Additional substances may be present in addition to PVC, including impact modifiers, process aids, stabilizers, etc. This HPD will be updated as more information becomes available.

LIMESTONE, CALCIUM CARBONATEID: **1317-65-3**%: **1.0000 - 3.0000**GS: **LT-UNK**RC: NANO: ROLE: **Tube Ring; Tube Ring Seal; Dome Ring**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: Inert Filler. Identified on the US EPA Safer Chemical Ingredient List.

SPECTRALIGHT INFINITY FILM

ID: **Unknown**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-01-09									
%: 0.2000 - 0.3000	GS: Not Screened	RC: UNK	NANO: Unknown	ROLE: Light Tracker Reflector; Reflective Tubing						
<table border="1"> <thead> <tr> <th>HAZARD TYPE</th> <th>AGENCY AND LIST TITLES</th> <th>WARNINGS</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">Hazard Screening not performed</td> </tr> </tbody> </table>					HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	Hazard Screening not performed		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS								
Hazard Screening not performed										
SUBSTANCE NOTES: Efforts to receive confirmation of the identity of unknown substances are ongoing; this HPD will be updated when more information becomes available.										

KRAFT PAPER

ID: **Not registered**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-01-09									
%: 0.2000 - 0.3000	GS: NoGS	RC: None	NANO: No	ROLE: LightTracker Reflector; Reflective Tubing						
<table border="1"> <thead> <tr> <th>HAZARD TYPE</th> <th>AGENCY AND LIST TITLES</th> <th>WARNINGS</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">No hazards found</td> </tr> </tbody> </table>					HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	No hazards found		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS								
No hazards found										
SUBSTANCE NOTES:										

POLYETHYLENE

ID: **9002-88-4**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-01-09									
%: 0.1000 - 0.2000	GS: LT-UNK	RC: None	NANO: No	ROLE: LightTracker Reflector; Reflective Tubing						
<table border="1"> <thead> <tr> <th>HAZARD TYPE</th> <th>AGENCY AND LIST TITLES</th> <th>WARNINGS</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">No hazards found</td> </tr> </tbody> </table>					HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	No hazards found		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS								
No hazards found										
SUBSTANCE NOTES:										

POLYPROPYLENE

ID: **9003-07-0**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-01-09			
%: 0.1000 - 0.3000	GS: LT-UNK	RC: None	NANO: No	ROLE: Dome Seal

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List.

POLYBUTENE

ID: 9003-29-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-01-09			
%: 0.1000 - 0.3000	GS: LT-UNK	RC: None	NANO: No	ROLE: Tube Ring Seal; Dome Ring Seal

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES:

ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM)

ID: 25038-36-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-01-09			
%: 0.1000 - 0.2000	GS: LT-UNK	RC: None	NANO: No	ROLE: Diffuser Seal

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES:

PENTANE

ID: 109-66-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-01-09			
%: 0.0000 - 0.1000	GS: LT-P1	RC: None	NANO: No	ROLE: Flashing Insulator; Curb Insulator

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour
MAMMALIAN	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: Used as blowing agent for polyisocyanurate foam insulation.

METHYL METHACRYLATE

ID: 80-62-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-01-09
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#: **Impurity/Residual**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Impurity/Residual**

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

SUBSTANCE NOTES: Potential impurity of 9010-88-2 (Monomer; Integral).

STYRENE, METHYL METHACRYLATE, BUTADIENE POLYMER

ID: **25053-09-2**

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

HAZARD SCREENING DATE: **2019-01-09**

#: **0.0000 - 0.4000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Acrylic Dome**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: Impact modifier used in acrylic sheet from alternate supplier.

PHENOL, 2-(5-CHLORO-2H-BENZOTRIAZOL-2-YL)-4,6-BIS(1,1-DIMETHYLETHYL)-

ID: **3864-99-1**

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

HAZARD SCREENING DATE: **2019-01-09**

#: **0.0000 - 0.8000**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Acrylic Dome**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EU - SVHC Authorisation List	vPvB - Candidate list
PBT	EU - SVHC Authorisation List	vPvB - Prioritized for listing
PBT	ChemSec - SIN List	PBT / vPvB (Persistent, Bioaccumulative, & Toxic / very Persistent & very Bioaccumulative)
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: UV Stabilizer used in acrylic sheet from alternate supplier.

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

CDPH Standard Method – Not tested

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **N/A**

APPLICABLE FACILITIES: **N/A**

01-08

CERTIFICATE URL:

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.

POLYURETHANE OR COPOLYMER BASED ELASTOMERIC SEALANT

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Sealant used for installation of Flashing. Please contact manufacturer if more information is required.

DOME SECURITY KIT

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Optional Dome Security Kit available for 330 DS Dome Assembly. The kit consists of six rivets with protective nylon spacers, which replace dome screws. The dome security kit reduces the possibility of the dome being removed. Please contact manufacturer if more information is required.

DOME EDGE PROTECTION BAND

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Optional Dome Edge Protection Band available for use on Class A, B or C roofs to maintain fire rating. Constructed of galvanized steel. Please contact manufacturer if more information is required.

ROOF FLASHING TURRET EXTENSIONS

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Optional Roof Flashing Turret Extensions are available in 12", 24", 36" and 48" lengths. Used to raise the height of the SolaMaster 330 DS Dome on a roof to avoid snow, water or shading. Constructed of galvanized steel. Please contact manufacturer if more information is required.

SPECTRALIGHT® INFINITY EXTENSION TUBES

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Optional Extension Tubes can be added in increments of 24" or 48" for long runs (up to 50 feet) without sacrificing performance. Constructed of Aluminum coated with Solatube's proprietary Spectralight Infinity coating, which has the highest reflectivity in the world for the brightest, purest light. Please contact manufacturer if more information is required.

THERMAL INSULATION PANEL

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Optional Thermal Insulation Panel provides unmatched thermal performance. Two climate control discs paired with polycarbonate ring prevent conductive and convective heat transfer. Spectralight® Infinity material inside ring maximizes light transfer. Please contact manufacturer if more information is required.

DAYLIGHT DIMMER

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Optional Daylight Dimmer uses a patented butterfly baffle and a convenient wall-mounted switch to allow for simple and easy adjustments to room daylight illumination levels. Constructed primarily of ABS Acrylic and Aluminum. Please contact manufacturer if more information is required.

DAYLIGHT DIMMER SWITCH KIT

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Optional Daylight Dimmer Switch Kit includes a Double-Pole Double-Throw (DPDT) switch, wall plate and 15 feet of cable. One switch can control multiple Daylight Dimmers simultaneously. The optional Daylight Dimmer allows for simple and easy adjustments to room daylight levels. Please contact manufacturer if more information is required.

METAL ROOF INSTALLATION KIT

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Used for installation of Metal Roof Flashing. Please contact manufacturer if more information required.

WIRE SUSPENSION KIT

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Optional Wire Suspension Kit for use when additional bracing to the structure is required. Constructed of galvanized steel. Please contact manufacturer if more information is required.

SECONDARY DIFFUSER

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Optional Secondary Diffuser is used to eliminate unwanted glare or to reduce light output. Constructed of acrylic. Please contact manufacturer for more information if required.

SECURITY BAR

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Optional Security Bar inserts into the flashing turret across the diameter of the opening. The stainless steel bar is fastened using rivets and prohibits entry through the dome. Please contact manufacturer for more information if required.

Solatube products are engineered to reduce environmental impacts while providing energy-efficient lighting that nurtures building occupants. By utilizing sustainable natural daylight, our systems eliminate the need for electric lights during the day, as well as the utility needed to generate that power. This minimizes a building's carbon footprint by reducing environmental CO2 emissions. From a financial perspective, Solatube Daylighting Systems make sense because they are cost-effective and reduce maintenance costs associated with electric lighting. In fact, they often have lower installation costs than other fenestration products. The end result is high-performance, eco-friendly commercial lighting at a price that fits your budget.



MANUFACTURER INFORMATION

MANUFACTURER: **Solatube International**
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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.