

CLASSIFICATION: 12 26 00 Furnishings: Interior Daylighting Devices

PRODUCT DESCRIPTION: The groundbreaking SkyVault series gives you ultimate daylighting control. By mixing and matching components, you can enhance light capture, control the focus and create dynamic designs in large volume spaces with high, open ceilings. The SkyVault series delivers more light to meet illumination requirements, provides maximum output with minimum impact on building envelope, can be tailored for specific project needs, and reduces installation costs - all with just one system. This HPD covers the basic configuration of the SkyVault M74 Daylighting System; optional components 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

SKYVAULT M74 DAYLIGHTING SYSTEM [**STEEL** **NoGS** **LEXAN (LEXAN)** **NoGS** **ALUMINUM** **LT-P1** | RES | PHY | END **STAINLESS STEEL** **NoGS** **2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER, POLYMER WITH ETHYL 2-PROPENOATE** **LT-UNK** **ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM)** **LT-UNK** **POLYISOCYANURATE FOAM** **LT-UNK** **POLYETHYLENE TEREPHTHALATE (PET)** **LT-UNK** **POLYETHYLENE** **LT-UNK** **KRAFT PAPER** **NoGS** **POLYURETHANE FOAMS (POLYURETHANE FOAMS)** **LT-UNK** **SPECTRALIGHT INFINITY FILM** **Not Screened** **POLYPROPYLENE** **LT-UNK** **TRIS(1-CHLORO-2-PROPYL)PHOSPHATE (TCPP, TMCP)** **BM-U** | END | PBT | MUL **CYCLOPENTANE** **LT-UNK** | PHY **POLYETHYLENE TEREPHTHALATE GLYCOL (PETG)** **NoGS** **NEOPRENE** **LT-UNK** **2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE** **LT-UNK** **STYRENE BUTADIENE RUBBER (SBR)** **LT-UNK** **POLYVINYL CHLORIDE (PVC)** **LT-P1** | RES]

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

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This HPD was completed in accordance with the HPD Standard version 2.1.1. More than 99% of the substances present in this product have been Characterized and Screened for hazards. Less than 1% of the finished product 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: **2019-01-08**

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

EXPIRY DATE: **2022-01-08**



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

SKYVAULT M74 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. No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS 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 SkyVault M74 Daylighting System. Optional components are listed in Section 4: Accessories.

STEEL

ID: 12597-69-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-01-08

#: 36.2000 - 37.0000

GS: NoGS

RC:

NANO:

ROLE: Collector Cylinder Back Panel; Cylinder Stanchion; Cylinder Belt; Cylinder Dome Cleats; Curb Cap Flashing Base; Dome Edge Protection Band; Cross Beams; Hardware

PostC

No

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Includes 24% to 60% Post-Consumer recycled content. This substance is considered essentially inert for the purposes of Pharos toxics scoring (Pharos CML). Supplier SDS provide 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].

LEXAN (LEXAN)

ID: 24936-68-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-01-08

#: 24.7000 - 25.5000

GS: NoGS

RC: None

NANO: No

ROLE: Collector Dome; Collector Cylinder

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Polycarbonate resin. Component of external assembly. May also be represented by the following CASRN: 111211-39-3 [NoGS | NO]; 25971-63-5 [LT-UNK | NO]; 103598-77-2 [LT-UNK | NO].

ALUMINUM

ID: 7429-90-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-08**

%: **15.8000 - 16.3000** GS: **LT-P1** RC: **PostC** NANO: **No** ROLE: **Collector Cylinder Stanchion; Collector Cylinder; LightTracker Reflector; Reflective Tubing; Flashing Base; Amplifier Multifaceted Panels; Prismatic Diffuser Collar; Amplifier Diffuser Collar; Tube Collar; Dome Edge Protection Band; Foil 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 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].

STAINLESS STEEL

ID: 12597-68-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-08**

%: **11.5000 - 11.8000** GS: **NoGS** RC: **PostC** NANO: **No** ROLE: **Cone Segment; Dome Ring; Wire Rope Bridle; Retainer Band Assembly; Hardware**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: Includes 92% 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: <90% Iron [7439-89-6; LT-P1]; <40% Nickel [7440-02-0; LT-1]; <30% Chromium [7440- 47-3; LT-P1]; <15% Manganese [7439-96-5; LT-P1]; <5% Molybdenum [7439-98-7; LT-UNK]; <5% Copper [7440-50-8; LT-UNK]; <3% Silicon [7440-21-3; LT-UNK]; <1% Aluminum [7429-90-5; LT-P1]; <1% Cobalt [7440-48-4; LT-1]; <1% Titanium [7440-32-6; LT-UNK].

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: **2019-01-08**

%: **4.7000 - 5.6000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Diffuser Lens; Raybender HD Fresnel Lens**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: Acrylic lenses.

ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM)

ID: 25038-36-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-08**

#: **1.2000 - 1.4000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Diffuser Seal; Dress Ring Seal; Roof Dome Seal**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

No hazards found

SUBSTANCE NOTES:

POLYISOCYANURATE FOAM

ID: 9063-78-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-08**

#: **0.8000 - 0.9000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Flashing Insulation**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

No hazards found

SUBSTANCE NOTES: Component of external assembly.

POLYETHYLENE TEREPHTHALATE (PET)

ID: 25038-59-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-08**

#: **0.4000 - 0.7000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Raybender HD Assembly**

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: **2019-01-08**

#: **0.4000 - 0.8000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **LightTracker Reflector; Prismatic Diffuser Collar; Amplifier Multifaceted Panels; Amplifier Diffuser Collar; Outer Dome Seal**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

No hazards found

SUBSTANCE NOTES:

KRAFT PAPERID: **Not registered**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-08**

%: **0.2000 - 0.3000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **LightTracker Reflector; Prismatic Diffuser Collar; Amplifier Multifaceted Panels; Amplifier Diffuser Collar**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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No hazards found

SUBSTANCE NOTES:

POLYURETHANE FOAMS (POLYURETHANE FOAMS)ID: **9009-54-5**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-08**

%: **0.2000 - 0.4000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Outer Dome Seal**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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No hazards found

SUBSTANCE NOTES: **Component of external assembly.****SPECTRALIGHT INFINITY FILM**ID: **Unknown**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-08**

%: **0.1000 - 0.2000** GS: **Not Screened** RC: **UNK** NANO: **Unknown** ROLE: **LightTracker Reflector; Prismatic Diffuser Collar; Amplifier Multifaceted Panels; Amplifier Diffuser Collar**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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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.****POLYPROPYLENE**ID: **9003-07-0**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-08**

%: **0.1000 - 0.2000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Raybender HD Weatherseal**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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No hazards found

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

TRIS(1-CHLORO-2-PROPYL)PHOSPHATE (TCPP, TMCP)

ID: 13674-84-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-01-08**%: **0.0200 - 0.2000**GS: **BM-U**RC: **None**NANO: **No**ROLE: **Flashing Base Insulation**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
PBT	EHP - San Antonio Statement on BFRs & CFRs	Flame retardant substance class of concern for PB&T & long range transport
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - ongoing chemical (risk) assessment

SUBSTANCE NOTES: "An additive flame retardant. It is used extensively in rigid and flexible polyurethane foam." (Pharos CML). GreenScreen Benchmark® assessment score of BM-U was provided by the HPD Builder Tool. Component of external assembly.

CYCLOPENTANE

ID: 287-92-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-01-08**%: **0.0200 - 0.2000**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Flashing Base Insulation**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour

SUBSTANCE NOTES: Component of external assembly. Used as blowing agent in polyurethane foam insulation.

POLYETHYLENE TEREPHTHALATE GLYCOL (PETG)

ID: 25640-14-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-01-08**%: **0.0000 - 2.0000**GS: **NoGS**RC: **None**NANO: **No**ROLE: **Inner Thermal Disk**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: Available in Double Roof Dome Assembly only. Component of external assembly.

NEOPRENE

ID: 9010-98-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-01-08**%: **0.0000 - 0.2000**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Roof Dome Seal**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: Supplier provides seal from various manufacturers with differing material compositions including EPDM, Neoprene, NBR, SBR, PVC, or a blend of these substances. Component of external assembly.

2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE

ID: 9003-18-3

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

HAZARD SCREENING DATE: **2019-01-08**

#: **0.0000 - 0.2000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Roof Dome Seal**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Supplier provides seal from various manufacturers with differing material compositions including EPDM, Neoprene, NBR, SBR, PVC, or a blend of these substances. Component of external assembly.

STYRENE BUTADIENE RUBBER (SBR)

ID: 9003-55-8

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

HAZARD SCREENING DATE: **2019-01-08**

#: **0.0000 - 0.2000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Roof Dome Seal**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Supplier provides seal from various manufacturers with differing material compositions including EPDM, Neoprene, NBR, SBR, PVC, or a blend of these substances. Component of external assembly.

POLYVINYL CHLORIDE (PVC)

ID: 9002-86-2

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

HAZARD SCREENING DATE: **2019-01-08**

#: **0.0000 - 0.2000**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Roof Dome Seal**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Supplier provides seal from various manufacturers with differing material compositions including EPDM, Neoprene, NBR, SBR, PVC, or a blend of these substances. Component of external assembly.

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.

THERMAL INSULATION PANEL

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

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. Contact manufacturer if more information is required.

EXTENSION TUBES

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Extension tubes feature a revolutionary Tab-Lock Connection System with Tube Belts that prevent gaps and eliminate the need for screws and tape. Constructed primarily of Aluminum. Tubes come in 24 in. and 48 in. lengths. Contact manufacturer if more information is required.

M74 DS SECURITY GUARD

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

The optional Security Guard comes pre-installed in specific dome assemblies and consists of stainless steel rods welded into a hexagonal grid riveted into the curb cap turret, creating a visual and physical deterrent at the dome level. Contact manufacturer if more information is required.

MASTERSEAL TX 1

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Elastomeric polyurethane sealant used for installation of the Insulation Panel and Tube Collar. Contact manufacturer if more information is required.

FIREBLOCK FOAM POLYURETHANE FOAM SEALANT

HPD URL: **No HPD Available**

Used during installation to seal Curb Cap. Contact manufacturer if more information is required.

Section 5: General Notes

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**
 ADDRESS: **2210 Oak Ridge Way**
Vista CA 92081, USA
 WEBSITE: **http://www.solatube.com**

CONTACT NAME: **Jennifer Delaney**
 TITLE: **Executive Assistant**
 PHONE: **760.477.2763**
 EMAIL: **jdelaney@thepario.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	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.