

HPD UNIQUE IDENTIFIER: 27941

CLASSIFICATION: 07 21 13 Board Insulation

PRODUCT DESCRIPTION: This HPD covers roof insulation panels, Legerpente and Legertoit by Le Groupe Legerlite. Legertoit is an Insulation panel with rabbeted or straight edges, made with EPS beads containing a flame retardant. Legerpente is a sloped insulation panel made with EPS beads also containing a flame retardant. Lengths and widths available: 2' x 4', 2' x 8', 4' x 4', and 4' x 8'.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold Level	Residuals/Impurities	All Substances Above the Threshold Indicated Are:
☒ Nested Materials Method	☐ 100 ppm	Considered in 2 of 2 Materials	Characterized ☐ Yes ☒ Ex/SC ☒ Yes ☐ No
☐ Basic Method	☒ 1,000 ppm	Explanation(s) provided for Residuals/Impurities?	% weight and role provided for all substances.
Threshold Disclosed Per	☐ Per GHS SDS	☒ Yes ☐ No	Screened ☐ Yes ☒ Ex/SC ☒ Yes ☐ No
☐ Material	☐ Other		All substances screened using Priority Hazard Lists with results disclosed.
☒ Product			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	
EXPANDED POLYSTYRENE	[UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 MUL PHY MAM AQU ISOPENTANE LT-P1 MUL MAM AQU PHY CYCLOPENTANE LT-UNK PHY UNDISCLOSED LT-1 PBT MUL UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-UNK]	RECYCLED EPS [UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 MUL PHY MAM AQU ISOPENTANE LT-P1 MUL MAM AQU PHY CYCLOPENTANE LT-UNK PHY UNDISCLOSED LT-1 PBT MUL UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-UNK]

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:

HPD prepared using a Nested Materials Inventory with a product threshold at 1,000 ppm. The content inventory represents Legerpente and Legertoit products. Insulation panels contain materials with Special Conditions (reaction product, defined substances without identifier, recycled content - mixture) as per the HPDC. Guidelines for reporting Special Conditions materials are still under development by HPDC. Le Groupe Legerlite will update the HPD accordingly once these guidelines get published. Substances present in insulation panels, as well as known residuals and impurities, have been disclosed at 1,000 ppm. More details about how residuals and impurities were considered available in the appropriate sections.

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 V1.2 (Section 01350/CHPS) - Not Tested

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

- ☐ Yes
☒ No

PREPARER: Vertima
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2022-03-25
PUBLISHED DATE: 2022-03-25
EXPIRY DATE: 2025-03-25

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 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

EXPANDED POLYSTYRENE		%: 85.0400
PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONSIDERED: Yes	MATERIAL TYPE: Polymeric Material
RESIDUALS AND IMPURITIES NOTES: Information related to residuals and impurities provided by supplier. Presence of residual styrene (CAS#100-42-5) in final expanded polystyrene (EPS) at levels inferior to 500 ppm. Recent MOA (mode of action) studies confirm that humans and rats do not have the same tumorigenic process as mice for developing lung tumors. Since lung tumors are common in controlled mice populations used in research but not in rats, the MOA studies supports that the research on the respiratory tract effects of styrene in mice is not relevant to human risk assessment: http://styrene.org/wp-content/uploads/2014/01/SIRC-Vol.9-No1_LoRes.pdf		
HPD URL: https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx#k=legerlite		
OTHER MATERIAL NOTES: According to supplier, as polystyrene is processed, i.e. expanded then molded and finally aged, it loses blowing agent until the pentane content is zero.		

UNDISCLOSED		ID: Undisclosed		
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:17:21		
%: 92.5000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Styrene is a chemical residual (monomer residual) remaine in the product at the weight ≤ 500 ppm, CAS number 100-42-5. Backed by internal and external testing at a level of 1,000 ppm, the is no impurities present in the styrochem products.				

UNDISCLOSED		ID: Undisclosed		
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:17:22		
%: 0.0000 - 4.6200	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Blowing agent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]		
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]		
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]		
SUBSTANCE NOTES: Based on information from supplier, residual and impurity are below the level of 1,000 ppm. The rate is expressed as a range because the exact value is proprietary and it covers different ROOF Insulation products (Legertoit - Legerpente (Type I, II, III)).				

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:17:23	
%: 0.0000 - 1.0300		GS: LT-P1	RC: None NANO: No SUBSTANCE ROLE: Blowing agent
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS
MUL	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1		H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1		H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1		H224 - Extremely flammable liquid and vapour [Flammable liquids - Category 1]
SUBSTANCE NOTES: Based on information from supplier, residual and impurity are below the level of 1,000 ppm. The rate is expressed as a range because the exact value is proprietary and it covers different ROOF Insulation products (Legertoit - Legerpente (Type I, II, III)).			

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:17:23		
%: 0.0000 - 1.0300	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Blowing agent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]		
SUBSTANCE NOTES: Based on information from supplier, residual and impurity are below the level of 1,000 ppm. The rate is expressed as a range because the exact value is proprietary and it covers different ROOF Insulation products (Legertoit - Legerpente (Type I, II, III)).				

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:17:24	
%: 0.0000 - 0.6000		GS: LT-1	RC: None NANO: No SUBSTANCE ROLE: Flame retardant
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS
PBT	OSPAR - Priority PBTs & EDs & equivalent concern		PBT - Chemical for Priority Action
MUL	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters
PBT	EHP - San Antonio Statement on BFRs & CFRs		Flame retardant substance class of concern for PB&T & long range transport
SUBSTANCE NOTES: Based on information from supplier, residual and impurity are below the level of 1,000 ppm. The rate is expressed as a range because the exact value is proprietary and it covers different ROOF Insulation products (Legertoit - Legerpente (Type I, II, III)).			

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2022-03-25 11:17:24		
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%: 0.0000 - 0.2500		GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Desiccant
HAZARD TYPE		AGENCY AND LIST TITLES		WARNINGS	
None found		No warnings found on HPD Priority Hazard Lists			
SUBSTANCE NOTES: Based on information from supplier, residual and impurity are below the level of 1,000 ppm. The rate is expressed as a range because the exact value is proprietary and it covers different ROOF Insulation products (Legertoit - Legerpente (Type I, II, III)).					

UNDISCLOSED ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:17:25			
%: 0.0000 - 0.2500		GS: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Desiccant
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
None found			No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Based on information from supplier, residual and impurity are below the level of 1,000 ppm. The rate is expressed as a range because the exact value is proprietary and it covers different ROOF Insulation products (Legertoit - Legerpente (Type I, II, III)).					

UNDISCLOSED ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:17:25			
%: 0.0000 - 0.2500		GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Desiccant
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
None found			No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Based on information from supplier, residual and impurity are below the level of 1,000 ppm. The rate is expressed as a range because the exact value is proprietary and it covers different ROOF Insulation products (Legertoit - Legerpente (Type I, II, III)).					

RECYCLED EPS		%: 14.9600
PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONSIDERED: Yes	MATERIAL TYPE: Polymeric Material
RESIDUALS AND IMPURITIES NOTES: Information related to residuals and impurities provided by supplier. Presence of residual styrene (CAS#100-42-5) in final expanded polystyrene (EPS) at levels inferior to 500 ppm. Recent MOA (mode of action) studies confirm that humans and rats do not have the same tumorigenic process as mice for developing lung tumors. Since lung tumors are common in controlled mice populations used in research but not in rats, the MOA studies supports that the research on the respiratory tract effects of styrene in mice is not relevant to human risk assessment: http://styrene.org/wp-content/uploads/2014/01/SIRC-Vol.9-No1_LoRes.pdf		
HPD URL: https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx#k=legerlite		
OTHER MATERIAL NOTES: According to supplier, as polystyrene is processed, i.e. expanded then molded and finally aged, it loses blowing agent until the pentane content is zero. This material is a 100% pre-consumer recycled EPS recovered by a third party and mechanically transformed from boards processed by Le Groupe Legerlite.		

UNDISCLOSED ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:17:22		
%: 92.5000	GS: LT-UNK	RC: PreC	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: This substance is part of the expanded polystyrene (EPS) product 100% recycled as pre-consumer material. Styrene is a chemical residual (monomer residual) remaine in the product at the weight ≤ 500 ppm, CAS number 100-42-5. Backed by internal and external testing at a level of 1,000 ppm, the is no impurities present in the styrochem products.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 11:17:26**

%: **0.0000 - 4.6200**
 GS: **LT-P1**
 RC: **PreC**
 NANO: **No**
 SUBSTANCE ROLE: **Blowing agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]

SUBSTANCE NOTES: This substance is part of the expanded polystyrene (EPS) product 100% recycled as pre-consumer material. Based on information from supplier, residual and impurity are below the level of 1,000 ppm. The rate is expressed as a range because the exact value is proprietary and it covers different ROOF Insulation products (Legertoit - Legerpente (Type I, II, III)).

ISOPENTANE

ID: **78-78-4**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 11:17:26**

%: **0.0000 - 1.0300**
 GS: **LT-P1**
 RC: **PreC**
 NANO: **No**
 SUBSTANCE ROLE: **Blowing agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H224 - Extremely flammable liquid and vapour [Flammable liquids - Category 1]

SUBSTANCE NOTES: This substance is part of the expanded polystyrene (EPS) product 100% recycled as pre-consumer material. Based on information from supplier, residual and impurity are below the level of 1,000 ppm. The rate is expressed as a range because the exact value is proprietary and it covers different ROOF Insulation products (Legertoit - Legerpente (Type I, II, III)).

CYCLOPENTANE

ID: **287-92-3**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 11:17:27**

%: **0.0000 - 1.0300**
 GS: **LT-UNK**
 RC: **PreC**
 NANO: **No**
 SUBSTANCE ROLE: **Blowing agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]
SUBSTANCE NOTES: This substance is part of the expanded polystyrene (EPS) product 100% recycled as pre-consumer material. Based on information from supplier, residual and impurity are below the level of 1,000 ppm. The rate is expressed as a range because the exact value is proprietary and it covers different ROOF Insulation products (Legertoit - Legerpente (Type I, II, III)).		

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:17:27		
%: 0.0000 - 0.6000		GS: LT-1		RC: PreC NANO: No SUBSTANCE ROLE: Flame retardant
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
PBT	OSPAR - Priority PBTs & EDs & equivalent concern		PBT - Chemical for Priority Action	
MUL	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters	
PBT	EHP - San Antonio Statement on BFRs & CFRs		Flame retardant substance class of concern for PB&T & long range transport	
SUBSTANCE NOTES: This substance is part of the expanded polystyrene (EPS) product 100% recycled as pre-consumer material. Based on information from supplier, residual and impurity are below the level of 1,000 ppm. The rate is expressed as a range because the exact value is proprietary and it covers different ROOF Insulation products (Legertoit - Legerpente (Type I, II, III)).				

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:17:28		
%: 0.0000 - 0.2500	GS: LT-UNK	RC: PreC	NANO: No	SUBSTANCE ROLE: Desiccant
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: This substance is part of the expanded polystyrene (EPS) product 100% recycled as pre-consumer material. Based on information from supplier, residual and impurity are below the level of 1,000 ppm. The rate is expressed as a range because the exact value is proprietary and it covers different ROOF Insulation products (Legertoit - Legerpente (Type I, II, III)).				

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:17:28		
%: 0.0000 - 0.2500	GS: NoGS	RC: PreC	NANO: No	SUBSTANCE ROLE: Desiccant
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: This substance is part of the expanded polystyrene (EPS) product 100% recycled as pre-consumer material. Based on information from supplier, residual and impurity are below the level of 1,000 ppm. The rate is expressed as a range because the exact value is proprietary and it covers different ROOF Insulation products (Legertoit - Legerpente (Type I, II, III)).				

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:17:29		
%: 0.0000 - 0.2500	GS: LT-UNK	RC: PreC	NANO: No	SUBSTANCE ROLE: Desiccant
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warnings found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: This substance is part of the expanded polystyrene (EPS) product 100% recycled as pre-consumer material. Based on information from supplier, residual and impurity are below the level of 1,000 ppm. The rate is expressed as a range because the exact value is proprietary and it covers different ROOF Insulation products (Legertoit - Legerpente (Type I, II, III)).

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 V1.2 (Section 01350/CHPS) - Not Tested	
CERTIFYING PARTY: Self-declared	ISSUE DATE: 2022-03-	EXPIRY DATE:	CERTIFIER OR LAB: Legerlite
APPLICABLE FACILITIES: Legerlite Company	16		Company
CERTIFICATE URL:			
CERTIFICATION AND COMPLIANCE NOTES: ROOF Insulation (Legertoit - Legerpente (Type I, II, III)) are not tested for VOC emissions			

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

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MANUFACTURER INFORMATION

MANUFACTURER: Le Groupe Legerlite
ADDRESS: 5901, route Transcanadienne
 Pointe-Claire Québec H9R 1B7, Canada
WEBSITE: legerlite.ca

CONTACT NAME: Patrick Redmond
TITLE: Technical Manager
PHONE: 514-694-2493
EMAIL: predmond@legerlite.ca

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
BM-2 Benchmark 2 (use but search for safer substitutes)	
BM-1 Benchmark 1 (avoid - chemical of high concern)	
BM-U Benchmark Unspecified (due to insufficient data)	
LT-P1 List Translator Possible 1 (Possible Benchmark-1)	NoGS No GreenScreen.

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

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.