

HPD UNIQUE IDENTIFIER: 27940

CLASSIFICATION: 07 21 13.13 Foam Board Insulation

PRODUCT DESCRIPTION: This HPD covers wall insulation panels, LegerClad by Le Groupe Legerlite. LegerClad is an insulation panel made of Type II EPS covered with an air barrier. On top of its insulation value, Legerclad provides the protection of an air barrier that prevents air infiltration while allowing wall cavity humidity to escape. Legerclad is for use on exterior walls and conforms to National Building Code Standards and energy-saving building regulations (Règlement sur l'économie d'Énergie dans le bâtiment) when installed according to our guidelines. Legerclad is available in several standard sizes: 4' x 8' x 1" (R4.66); 1 1/2" (6.7); 2" (R8.6); or 4' x 9' 1" (R4.66); 1 1/2" (R6.7); and 2" (8.6) or according to client requirements.

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 6 of 6 Materials	Characterized ☐ Yes Ex/SC ☒ Yes ☐ No
☐ Basic Method	☒ 1,000 ppm	Explanation(s) provided	% weight and role provided for all substances.
Threshold Disclosed Per	☐ Per GHS SDS	for Residuals/Impurities?	Screened ☐ Yes Ex/SC ☒ Yes ☐ No
☐ Material	☐ Other	☒ Yes ☐ No	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] VAPOUR BARRIER [UNDISCLOSED LT-UNK | RES UNDISCLOSED BM-1 | END | RES | PHY UNDISCLOSED LT-UNK] AIR BARRIER MEMBRANE [UNDISCLOSED LT-UNK UNDISCLOSED BM-3dg UNDISCLOSED BM-1 | CAN UNDISCLOSED LT-UNK] RECYCLED EPS [UNDISCLOSED LT-UNK ISOPENTANE LT-P1 | MUL | MAM | AQU | PHY UNDISCLOSED LT-P1 | MUL | PHY | MAM | AQU CYCLOPENTANE LT-UNK | PHY UNDISCLOSED LT-1 | PBT | MUL UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-UNK] ADHESIVE [UNDISCLOSED BM-4 UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-1 | END | REP | DEV | MUL UNDISCLOSED LT-P1 | MUL | SKI | AQU | MAM | EYE] ADHESIVE [ETHENE, POLYMER WITH 1-PROPENE LT-UNK 1-BUTENE, POLYMER WITH 1-PROPENE NoGS BENZENE, (1-METHYLETHENYL)-, POLYMER WITH 2-METHYL-2-BUTENE AND 1,3-PENTADIENE LT-UNK UNDISCLOSED LT-UNK]

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

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

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

HPD prepared using a Nested Materials Inventory with a product threshold at 1,000 ppm. The content inventory includes LegerFoil products. Insulation panels contain materials with Special Conditions (reaction product, form specific hazards, defined substances without identifier, recycled content - mixture) as per the HPDC. Guidelines for reporting reacted chemicals 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. Alternative adhesive can be used in the Legerfoil product manufacturing.

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

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		%: 74.5200
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		
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 11:13:32
%: 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 11:13:46
%: 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 wall insulation products (Legerlite - Thermolite).

ISOPENTANE	ID: 78-78-4
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HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:46			
%: 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 wall insulation products (Legerlite - Thermolite).					

CYCLOPENTANE

ID: 287-92-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:47		
%: 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 wall insulation products (Legerlite - Thermolite).				

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:47			
%: 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 wall insulation products (Legerlite - Thermolite).					

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2022-03-25 11:13:48		
%: 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 wall insulation products (Legerlite - Thermolite).		

UNDISCLOSEDID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:48		
%: 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 wall insulation products (Legerlite - Thermolite).				

UNDISCLOSEDID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:49		
%: 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 wall insulation products (Legerlite - Thermolite).				

VAPOUR BARRIER%: **16.5900**

PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONSIDERED: Yes	MATERIAL TYPE: Polymeric Material
RESIDUALS AND IMPURITIES NOTES: Based on information from the supplier, residuals and impurities are under the threshold of 1,000 ppm.		
OTHER MATERIAL NOTES: Composition of this material are proprietary		

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:34	
%: 57.7000	GS: LT-UNK	RC: PostC	NANO: No SUBSTANCE ROLE: Structure component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced	
SUBSTANCE NOTES: The substance contains 100% of post-consumer recycled content.			

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:35		
%: 23.0000	GS: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Water resistance
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H228 - Flammable solid [Flammable solids - Category 1 or 2]		
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H261 - In contact with water releases flammable gases [Substances and mixtures which, in contact with water, emit flammable gases - Category 2 or 3]		
SUBSTANCE NOTES: Based on information from supplier, residual and impurity are below the level of 1,000 ppm.				

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:36		
%: 19.2000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Adhesive
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.				

AIR BARRIER MEMBRANE

%: **15.7900**

PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONSIDERED: Yes	MATERIAL TYPE: Polymeric Material
RESIDUALS AND IMPURITIES NOTES: Based on information from the supplier, this material contain carbon black <10% with CAS: 1333-86-4.		
OTHER MATERIAL NOTES: The air barrier membrane is only present in LegerClad product. The composition of this material are proprietary.		

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:33		
%: 60.0000 - 100.0000	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: 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 .				

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-16 18:32:16		
%: 0.0000 - 40.0000	GS: BM-3dg	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: 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 .				

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-16 18:34:14		
%: 0.0000 - 2.0000	GS: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CAN	US CDC - Occupational Carcinogens		Occupational Carcinogen	
CAN	MAK		Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification	
CAN	CA EPA - Prop 65		Carcinogen - specific to chemical form or exposure route	
CAN	IARC		Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources	
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 .				

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:42		
%: 0.0000 - 3.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Heat or UV stabilizer
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 .				

RECYCLED EPS

%: 6.4800

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

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 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 11:13:32

%: 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.

ISOPENTANE

ID: 78-78-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-03-25 11:13:42

%: 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 wall insulation products (Legerlite - Thermolite).

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-03-25 11:13:43

%: 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 wall insulation products (Legerlite - Thermolite).		

CYCLOPENTANE

ID: 287-92-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:43		
%: 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 wall insulation products (Legerlite - Thermolite).				

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:44			
%: 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 wall insulation products (Legerlite - Thermolite).					

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:44		
%: 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 wall insulation products (Legerlite - Thermolite).		

UNDISCLOSEDID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:45		
?: 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 wall insulation products (Legerlite - Thermolite).				

UNDISCLOSEDID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:45		
?: 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 wall insulation products (Legerlite - Thermolite).				

ADHESIVE?: **2.4100**

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Based on information from the supplier, residuals and impurities are under the threshold of 1,000 ppm.

OTHER MATERIAL NOTES: Composition of this material are proprietary

UNDISCLOSEDID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:33		
%: 65.0000 - 75.0000	GS: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Solvent
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.				

UNDISCLOSEDID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2022-03-25 11:13:37		
%: 15.0000 - 25.0000		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: 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.					

UNDISCLOSED			ID: Undisclosed		
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2022-03-25 11:13:37		
%: 4.0000 - 6.0000		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: 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.					

UNDISCLOSED			ID: Undisclosed		
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2022-03-25 11:13:38		
%: 1.0000 - 2.0000		GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
MUL	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters		
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.					

UNDISCLOSED			ID: Undisclosed		
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2022-03-25 11:13:38		
%: 1.0000 - 2.0000		GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
MUL	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters		
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.					

UNDISCLOSED			ID: Undisclosed		
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2022-03-25 11:13:39		
%: 1.0000 - 2.0000		GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Plasticizer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
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.		

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:40			
%: 0.3000 - 0.5000		GS: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Buffer
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
END	TEDX - Potential Endocrine Disruptors		Potential Endocrine Disruptor		
REP	EU - SVHC Authorisation List		Toxic to reproduction - Candidate list		
DEV	MAK		Pregnancy Risk Group B		
REP	EU - Annex VI CMRs		Reproductive Toxicity - Category 1B		
MUL	ChemSec - SIN List		CMR - Carcinogen, Mutagen &/or Reproductive Toxicant		
REP	EU - SVHC Authorisation List		Toxic to reproduction - Prioritized for listing		
END	EU - Priority Endocrine Disruptors		Category 1 - In vivo evidence of Endocrine Disruption Activity		
REP	GHS - Japan		H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]		
REP	GHS - Australia		H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B]		
REP	EU - GHS (H-Statements) Annex 6 Table 3-1		H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B]		
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.					

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:40		
%: 0.1000 - 0.2000	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]
EYE	EU - GHS (H-Statements) Annex 6 Table 3-1	H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H330 - Fatal if inhaled [Acute toxicity (inhalation) - Category 1 or 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.		

ADHESIVE

%: 2.4100

PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONSIDERED: Yes	MATERIAL TYPE: Polymeric Material
RESIDUALS AND IMPURITIES NOTES: Based on information from the supplier, residuals and impurities are under the threshold of 1,000 ppm		
OTHER MATERIAL NOTES: This material is an alternative adhesive		

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:34		
%: 50.0000 - 60.0000	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: 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.				

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:35		
%: 20.0000 - 40.0000	GS: NoGS	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: 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.				

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:36		
%: 20.0000 - 40.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Adhesive
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.				

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-03-25 11:13:39		
%: 0.5000 - 0.9000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Antioxidant
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.				

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: Wall insulation products (LegerFoil) is 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

Expanded polystyrene (EPS) has ideal physical and mechanical qualities for most insulation projects. EPS rigid panels can be used for insulation of foundations in residential and commercial buildings.

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)	NoGS No GreenScreen.
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)	

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.