

FOAMULAR® GRIDBOARD Extruded Polystyrene (XPS) Rigid Foam Insulation by Owens Corning

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: Thermal & Moisture Protection

PRODUCT DESCRIPTION: Owens Corning FOAMULAR® GRIDBOARD Extruded Polystyrene (XPS) Rigid Foam Insulation is a closed cell, moisture-resistant, durable rigid foam board intended for use in a variety of Thermomass® concrete sandwich wall insulation systems; pre-cast, tilt wall and cast in place.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold level

- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities

- Considered
- Partially Considered
- Not Considered

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
 All substances screened using Priority Hazard Lists with results disclosed.

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.

Threshold Disclosed Per

- Material
- Product

Explanation(s) provided for Residuals/Impurities?
 Yes No

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
FOAMULAR® GRIDBOARD EXTRUDED POLYSTYRENE (XPS) RIGID FOAM
INSULATION [POLYSTYRENE LT-UNK POLYSTYRENE LT-UNK UNDISCLOSED
LT-UNK | UNDISCLOSED LT-UNK | UNDISCLOSED LT-1 | PBT | END
UNDISCLOSED BM-1 | CAN]

Number of Greenscreen BM-4/BM3 contents ... 0
 Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
 Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
 To the best of our knowledge, all residual and impurities are considered.

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: UL/GreenGuard Gold Certified
 VOC emissions: UL/GreenGuard Certified
 Recycled content: SCS Recycled Content Certification - Recycling Programs
 Multi-attribute: Environmental Product Declaration (EPD) by UL

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified? <input type="radio"/> Yes <input checked="" type="radio"/> No	PREPARER: Self-Prepared VERIFIER: VERIFICATION #:	SCREENING DATE: 2019-02-04 PUBLISHED DATE: 2019-05-15 EXPIRY DATE: 2022-02-04
---	---	---



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

FOAMULAR® GRIDBOARD EXTRUDED POLYSTYRENE (XPS) RIGID FOAM INSULATION

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: To the best of our knowledge, all residual and impurities are considered.

OTHER PRODUCT NOTES:

POLYSTYRENE

ID: 9003-53-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-04

%: 65.00 - 75.00

GS: LT-UNK

RC: PreC

NANO: No

ROLE: Resin

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Resin used in making the Foamular Board.

POLYSTYRENE

ID: 9003-53-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-04

%: 20.00 - 30.00

GS: LT-UNK

RC: PreC

NANO: No

ROLE: Recycled Resin

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This portion of the resin is 100% pre-consumer recycled polystyrene.

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-04

%: 2.00 - 10.00

GS: LT-UNK

RC: None

NANO: No

ROLE: Blowing Agent Blend

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

GLOBAL WARMING

US EPA - Global Warming Potentials

Global Warming Potential greater than 1,000

GLOBAL WARMING

IPCC - Global Warming Chemicals

Chemicals with Global Warming Potential

SUBSTANCE NOTES: Portion of blowing agent blend with Global Warming Potential <1,000

UNDISCLOSED

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

HAZARD SCREENING DATE: **2019-02-04**

%: **2.00 - 5.00**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Blowing Agent Blend**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
GLOBAL WARMING	US EPA - Global Warming Potentials	Global Warming Potential greater than 100
GLOBAL WARMING	IPCC - Global Warming Chemicals	Chemicals with Global Warming Potential

SUBSTANCE NOTES: **Portion of blowing agent blend with Global Warming Potential <100**

UNDISCLOSED

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

HAZARD SCREENING DATE: **2019-02-04**

%: **0.10 - 2.00**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Flame Retardant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
ENDOCRINE	OSPAR - Priority PBTs & EDs & equivalent concern	Endocrine Disruptor - Chemical for Priority Action
PBT	EHP - San Antonio Statement on BFRs & CFRs	Flame retardant substance class of concern for PB&T & long range transport

SUBSTANCE NOTES: **The flame retardant used in our Foamular XPS product is a polymeric halogenated flame retardant (Non-HBCD) and it is not on LBC v3.1 Red List chemicals.**

UNDISCLOSED

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

HAZARD SCREENING DATE: **2019-02-04**

%: **0.10 - 1.00**

GS: **BM-1**

RC: **None**

NANO: **No**

ROLE: **Additive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: **Additive for Foam performance enhancement.**

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

UL/GreenGuard Gold Certified

CERTIFYING PARTY: Third Party

ISSUE EXPIRY CERTIFIER OR

APPLICABLE FACILITIES: Tallmadge, OH, USA; Gresham, OR, USA; Rockford, IL, USA; Valleyfield, QC, CAN; Monterrey, MEX

DATE: DATE: LAB: UL

CERTIFICATE URL:

2006-02-17 Environment

https://spot.ul.com/data/spot/api/v1/products/5ad1e81d55b0e82d946a094c/certificates/UL2818G_BMS

CERTIFICATION AND COMPLIANCE NOTES: The GREENGUARD Gold Certification standard includes health based criteria for additional chemicals and also requires lower total VOC emissions levels to ensure that products are acceptable for use in environments such as schools and healthcare facilities. GREENGUARD Gold certification standard meets the requirements for California Department of Public Health's CDPH Standard.

VOC EMISSIONS

UL/GreenGuard Certified

CERTIFYING PARTY: Third Party

ISSUE EXPIRY CERTIFIER OR

APPLICABLE FACILITIES: Tallmadge, OH, USA; Gresham, OR, USA; Rockford, IL, USA; Valleyfield, QC, CAN; Monterrey, MEX

DATE: DATE: LAB: UL

CERTIFICATE URL:

2003-06-16 Environment

https://spot.ul.com/data/spot/api/v1/products/5ad1e81d55b0e82d946a094c/certificates/UL2818_BMS

CERTIFICATION AND COMPLIANCE NOTES:

RECYCLED CONTENT

SCS Recycled Content Certification - Recycling Programs

CERTIFYING PARTY: Third Party

ISSUE DATE: EXPIRY DATE: CERTIFIER OR LAB: SCS

APPLICABLE FACILITIES: Tallmadge, OH, USA; Gresham, OR, USA; Rockford, IL, USA; Valleyfield, QC, CAN; Monterrey, MEX

2018-04-01 Global Services

CERTIFICATE URL:

https://www.scs-certified.com/products/cert_pdfs/OwensCorning_2018_SCSMC-01132_s_v2.pdf

CERTIFICATION AND COMPLIANCE NOTES: Registration # SCS-MC-01132

MULTI-ATTRIBUTE

Environmental Product Declaration (EPD) by UL

CERTIFYING PARTY: Third Party

ISSUE DATE: EXPIRY DATE: CERTIFIER OR LAB: UL

APPLICABLE FACILITIES: Tallmadge, OH, USA; Gresham, OR, USA; Rockford, IL, USA; Valleyfield, QC, CAN; Monterrey, MEX

2019-01-01

CERTIFICATE URL:

<https://spot.ul.com/data/spot/api/v1/certificationMarks/5ad1e1ac95c155157c13a39f>

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.



Section 5: General Notes

Pharos Chemical and Materials Library (through HPD Builder) was used to screen all chemicals used in making the product. The HPD is undergoing Third -Party Verification. Please send an e-mail to Nassreen.Olang@owenscorning.com if you would like to receive a notification, once the HPD is third-party verified.



MANUFACTURER INFORMATION

MANUFACTURER: **Owens Corning**
 ADDRESS: **One Owens Corning Parkway**
Toldeo Ohio 43659, United States
 WEBSITE: **www.owenscorning.com**

CONTACT NAME: **Nassreen Olang, Ph.D.**
 TITLE: **Corporate Product Stewardship Leader**
 PHONE: **7403215446**
 EMAIL: **nassreen.Olang@owenscorning.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.