

**CLASSIFICATION:** 07 21 13.19 Mineral Board Insulation

**PRODUCT DESCRIPTION:** Thermafiber® VersaBoard® multi-purpose insulation provides an outstanding combination of fire resistive characteristics, enhanced acoustical performance, thermal insulation, and energy conservation for various commercial construction applications. These products are great for parking garage under decking, mechanical rooms, and other areas where insulation is required. These products are engineered to repel moisture and can be an exposed interior surface. VersaBoard® insulation is not listed by UL® or Intertek® for use in fire rated systems. Thermafiber® VersaBoard® products are offered with and without Foil, ASJ, a facer with foil facer being the most common facer.

## Section 1: Summary

## Nested 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

Residuals/Impurities  
Considered in 0 of 2 Materials

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

*All substances screened using Priority Hazard Lists with results disclosed.*

**Identified**  Yes Ex/SC  Yes  No

*All substances disclosed by Name (Specific or Generic) and Identifier.*

### 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**

**THERMAFIBER® VERSABOARD® MINERAL INSULATION - UNFACED [ MINERAL WOOL, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤ 18 % BY WEIGHT LT-UNK UREA PHENOL FORMALDEHYDE LT-UNK AMMONIUM SULFATE LT-P1 | END PETROLATUM (PRIMARY CASRN IS 8009-03-8) LT-1 | CAN | MUL SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED BM-2 ] FOIL FACER [ POLYETHYLENE LT-UNK ALUMINUM NoGS CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK ANTIMONY TRIOXIDE BM-1 | CAN | MUL ]**

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:

Substances representing 100% of the product weight meet the 1000 ppm are considered and disclosed.

### 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: VOC Emissions

Recycled content: ICC-ES VAR Environmental Report™

Multi-attribute: Environmental Product Declaration (EPD) by UL - Product Specific

### CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2019-07-30

PUBLISHED DATE: 2019-08-21

EXPIRY DATE: 2022-07-30





## 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 2.1.1, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-1-standard](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

### THERMAFIBER® VERSABOARD® MINERAL INSULATION - UNFACED

#: 84.00 - 100.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Partially

RESIDUALS AND IMPURITIES NOTES: To the best of our knowledge, all residual and impurities are considered. However, the Partially considered is selected to account for the impurities unintentionally left out .

OTHER MATERIAL NOTES: Thermafiber®VersaBoard® Mineral Wool Insulation is available in different thickness and densities; therefore, a range is required to represent the entire product line.

#### MINERAL WOOL, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤ 18 % BY WEIGHT

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-30

#: 80.00 - 99.00

GS: LT-UNK

RC: PreC

NANO: No

ROLE: Thermal/Acoustic Insulation

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Owens Corning instituted internal systems to assure continuous production of acceptable glasses based on state-of-the-art understanding of biosolubility. As a result of those steps, all the fiberglass and mineral wool insulations we sell, anywhere in the world, are continuously evaluated to assure that they are biosoluble, fulfilling the Note Q condition of the European Commission Directive 97/69/EC, and therefore do not present a health risk. Blast furnace slag provides the recycle content for Thermafiber products.

#### UREA PHENOL FORMALDEHYDE

ID: 25104-55-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-30

#: 3.00 - 15.00

GS: LT-UNK

RC: None

NANO: No

ROLE: Resin

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The cured binder is the main component of the binder that holds mineral wool together and protects the surface of fiber.

#### AMMONIUM SULFATE

ID: 7783-20-2

%: **0.01 - 0.10**GS: **LT-P1**RC: **None**NANO: **No**ROLE: **Catalyst**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

**ENDOCRINE****TEDX - Potential Endocrine Disruptors****Potential Endocrine Disruptor**SUBSTANCE NOTES: **Used as a catalyst to speeds up the rate of a chemical reaction.****PETROLATUM (PRIMARY CASRN IS 8009-03-8)**ID: **8063-27-2**%: **0.00 - 0.10**GS: **LT-1**RC: **None**NANO: **No**ROLE: **De-Dusting Agent**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

**CANCER****EU - GHS (H-Statements)****H350 - May cause cancer****CANCER****EU - REACH Annex XVII CMRs****Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man****MULTIPLE****ChemSec - SIN List****CMR - Carcinogen, Mutagen &/or Reproductive Toxicant****MULTIPLE****German FEA - Substances Hazardous to Waters****Class 3 - Severe Hazard to Waters****CANCER****EU - Annex VI CMRs****Carcinogen Category 1B - Presumed Carcinogen based on animal evidence****CANCER****GHS - Australia****H350 - May cause cancer**SUBSTANCE NOTES: **The de-dusting agent is used to reduce the dust.****SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED**ID: **70131-67-8**%: **0.00 - 0.20**GS: **BM-2**RC: **None**NANO: **No**ROLE: **Water Repellent**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

**None found****No warnings found on HPD Priority Hazard Lists**SUBSTANCE NOTES: **The chemical increases the long term water resistivity of the product.****FOIL FACER**%: **0.00 - 4.00**PRODUCT THRESHOLD: **1000 ppm**RESIDUALS AND IMPURITIES CONSIDERED: **Partially**

RESIDUALS AND IMPURITIES NOTES: To the best of our knowledge, all residual and impurities are considered. However, the Partially considered is selected to account for the impurities unintentionally left out .

OTHER MATERIAL NOTES: Only applicable to Thermafiber® VersaBoard® Mineral Wool Insulation- Foil Faced Products.

Thermafiber® VersaBoard® Mineral Wool Insulation is available in different thickness and densities; therefore, a range is required to represent the entire product line.

## POLYETHYLENE

ID: 9002-88-4

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

HAZARD SCREENING DATE: **2019-07-30**

#: **0.00 - 2.50**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Adhesive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The Polyethylene film is the heat seal bonding layer, used to attach the foil facing to the mineral wool board.

## ALUMINUM

ID: 91728-14-2

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

HAZARD SCREENING DATE: **2019-07-30**

#: **0.00 - 2.50**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Barrier**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Aluminum provides the barrier properties.

Aluminum is one of the components of the facer, and it is analogue to the household aluminum foil that is non-hazardous. Therefore, it shall not considered to be associated with all hazardous warnings associated with aluminum metal.

## CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

ID: 65997-17-3

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

HAZARD SCREENING DATE: **2019-07-30**

#: **0.00 - 1.00**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Reinforcement**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The fiberglass reinforcing yarns adds strength to the foil facer.

## ANTIMONY TRIOXIDE

ID: 1309-64-4

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

HAZARD SCREENING DATE: **2019-07-30**

#: **0.00 - 0.06**

GS: **BM-1**

RC: **None**

NANO: **No**

ROLE: **Flame retardant**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	GHS - Japan	Carcinogenicity - Category 1B

**SUBSTANCE NOTES:** Antimony Trioxide is inextricably bound within the polymer matrix of the facer and not considered a hazardous chemical under the OSHA standard (29 CFR 1910.1200) per (b)(2).

## 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

### VOC Emissions

CERTIFYING PARTY: **Self-declared**      ISSUE DATE: **2014-**      EXPIRY DATE:      CERTIFIER OR LAB: **NA**  
APPLICABLE FACILITIES: **Wabash, IN, USA; Joplin, Mo, USA**      **09-01**  
CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: Thermafiber products manufactured with urea-phenol-formaldehyde binder are not included in Owens Corning's products which have GREENGUARD or GREENGUARD Gold certification. However, Owens Corning has done testing at a third-party laboratory to understand product emissions for a number of these Thermafiber products.

### RECYCLED CONTENT

### ICC-ES VAR Environmental Report™

CERTIFYING PARTY: **Third Party**      ISSUE DATE: **2018-**      EXPIRY DATE:      CERTIFIER OR LAB: **ICC**  
APPLICABLE FACILITIES: **Wabash, IN, USA; Joplin, Mo, USA**      **10-01**      **EVALUATION SERVICE, ICCES**  
CERTIFICATE URL: <https://icc-es.org/reportlisting/var-1025/>

CERTIFICATION AND COMPLIANCE NOTES:

### MULTI-ATTRIBUTE

### Environmental Product Declaration (EPD) by UL - Product Specific

CERTIFYING PARTY: **Third Party**      ISSUE      EXPIRY      CERTIFIER OR LAB:  
APPLICABLE FACILITIES: **Wabash, IN, USA**      DATE:      DATE:      **UL**  
CERTIFICATE URL:      **2014-**      **Environment**  
<https://spot.ul.com/data/spot/api/v1/certificationMarks/5ad1e1ac95c155157c13a39f>      **10-01**

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.*

No accessories are required for this product.

## 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. Thermafiber® VersaBoard® Mineral Wool Insulation is available in different thickness and densities; therefore, a range is required to represent the entire product line.





## MANUFACTURER INFORMATION

MANUFACTURER: **Owens Corning**  
 ADDRESS: **One Owens Corning Parkway**  
**Toledo 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

<b>AQU</b> Aquatic toxicity	<b>GLO</b> Global warming	<b>PHY</b> Physical Hazard (reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive toxicity
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple hazards	<b>RES</b> Respiratory sensitization
<b>END</b> Endocrine activity	<b>NEU</b> Neurotoxicity	<b>SKI</b> Skin sensitization/irritation/corrosivity
<b>EYE</b> Eye irritation/corrosivity	<b>OZO</b> Ozone depletion	<b>LAN</b> Land Toxicity
<b>GEN</b> Gene mutation	<b>PBT</b> Persistent Bioaccumulative Toxic	<b>NF</b> Not found on Priority Hazard Lists

### GreenScreen (GS)

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-P1</b> List Translator Possible Benchmark 1
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-1</b> List Translator Likely Benchmark 1
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>LT-UNK</b> List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	<b>NoGS</b> Unknown (no data on List Translator Lists)
<b>BM-U</b> 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.*