Thermafiber® UltraBatt™ Mineral Wool Insulation by Owens Corning

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 07 21 26 Blown Insulation

PRODUCT DESCRIPTION: Thermafiber UltraBatt™ mineral wool insulation is designed to provide excellent thermal insulation, fire protection and noise control in residential and light commercial building. The semi-rigid batts are more dense than traditional batts or rolls, and are quick and easy to install. UltraBatt™ insulation is noncombustible, moisture resistant, noncorrosive, nondeteriorating and mold resistant. Thermafiber® UltraBatt™ products are offered with and without 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 1 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® ULTRABATT™ MINERAL WOOL 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 RESIDUAL OILS, PETROLEUM, HYDROTREATED LT-1 | PBT | CAN | MUL] FOIL FACER [ALUMINUM NoGS POLYETHYLENE LT-UNK 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 100 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: Name of Certification or Compliance Environmental Product Declaration (EPD) by UL - Product Specific

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- ( ) Yes
- (•) No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2019-07-02
PUBLISHED DATE: 2019-08-19
EXPIRY DATE: 2022-07-02

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

THERMAFIBER® ULTRABATT™ MINERAL WOOL INSULATION-UNFACED

%: 90.00 - 100.00

PRODUCT THRESHOLD: 100 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® UltraBatt™ Mineral Wool Insulation products are 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: 2019-07-02

%: 90.00 - 97.00

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: 2019-07-02

%: 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

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-02**

%: **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

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-02**

%: **0.00 - 0.10** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Catalyst**

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	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Used as a catalyst to speeds up the rate of a chemical reaction.

RESIDUAL OILS, PETROLEUM, HYDROTREATED

ID: 64742-57-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-02**

%: **0.00 - 0.50** GS: **LT-1** RC: **None** NANO: **No** ROLE: **De-Dusting Agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
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
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: The de-dusting agent is used to reduce the dust.

FOIL FACER

%: 0.00 - 3.00

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. However, the Partially considered is selected to account for the impurities unintentionally left out

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

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

ALUMINUM

ID: 91728-14-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-02

%: 0.00 - 1.50 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.

POLYETHYLENE

ID: 9002-88-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-02

%: 0.00 - 1.50 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.

CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-02**

%: **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: **2019-07-02**

%: **0.00 - 0.03** GS: **BM-1** RC: **None** NANO: **No** ROLE: **Flame retardant**

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	Japan - GHS	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).

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
APPLICABLE FACILITIES: Wabash, IN, USA; Joplin, Mo, USA
CERTIFICATE URL:
ISSUE DATE: 2014-06-01
EXPIRY DATE:
CERTIFIER OR LAB: NA

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

CERTIFICATION AND COMPLIANCE NOTES:

MULTI-ATTRIBUTE — **Name of Certification or Compliance Environmental Product Declaration (EPD) by UL - Product Specific**

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

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® UltraBatt™ Mineral Wool Insulation is available in different thickness densities, therefore, a range is required to represent the entire product line.

Section 6: References

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

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

GreenScreen (GS)

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

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.