Thermafiber® UltraBatt™ Mineral Wool Insulation by Owens Corning

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

CONTENT INVENTORY

<table>
<thead>
<tr>
<th>Inventory Reporting Format</th>
<th>Threshold Disclosed Per</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nested Materials Method</td>
<td>Material</td>
</tr>
<tr>
<td>Basic Method</td>
<td>Product</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Threshold level</th>
<th>Residuals/Impurities</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 ppm</td>
<td>Residuals/Impurities</td>
</tr>
<tr>
<td>1,000 ppm</td>
<td>Considered in 1 of 2 Materials</td>
</tr>
<tr>
<td>Per GHS SDS</td>
<td>Explanation(s) provided for Residuals/Impurities?</td>
</tr>
<tr>
<td>Per OSHA MSDS</td>
<td>Yes</td>
</tr>
<tr>
<td>Other</td>
<td>No</td>
</tr>
</tbody>
</table>

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 RESIDUAL OILS, PETROLEUM, HYDROTREATED LT-1 | CAN | MUL
PETROLATUM (PRIMARY CASRN IS 8009-03-8) LT-1 | CAN | MUL
RESIDUAL OILS, PETROLEUM, HYDROTREATED LT-1 | PBT | CAN | MUL
ALUMINUM NOGS POLYETHYLENE LT-UNK CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK ANTIMONY TPH TRIOXIDE BM-1 | CAN | MUL

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](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

**THERMAFIBER® ULTRABATT™ MINERAL WOOL INSULATION-UNFACED**

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

None found

AGENCY AND LIST TITLES

WARNINGS

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

None found

AGENCY AND LIST TITLES

WARNINGS

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

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

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

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

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
### Polyethylene Film

**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

**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

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-07-02  
**%:** 0.00 - 1.00  
**GS:** BM-1  
**RC:** None  
**NANO:** No  
**ROLE:** Reinforcement

**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

**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

**WARNINGS:**  
CANCER:  
- IARC: Group 2b - Possibly carcinogenic to humans  
- CA EPA - Prop 65: Carcinogen  
- US NIH - Report on Carcinogens: Reasonably Anticipated to be Human Carcinogen  
- EU - GHS (H-Statements): H351 - Suspected of causing cancer  
- ChemSec - SIN List: CMR - Carcinogen, Mutagen &/or Reproductive Toxicant  
- MAK: Carcinogen Group 2 - Considered to be carcinogenic for man  
- 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

| CERTIFYING PARTY: | Self-declared |
| APPLICABLE FACILITIES: | Wabash, IN, USA; Joplin, Mo, USA |
| 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

| CERTIFYING PARTY: | Third Party |
| APPLICABLE FACILITIES: | Wabash, IN, USA; Joplin, Mo, USA |
| CERTIFICATE URL: | https://icc-es.org/reportlisting/var-1025/ |
| CERTIFICATION AND COMPLIANCE NOTES: | |

MULTI-ATTRIBUTE

| CERTIFYING PARTY: | Third Party |
| APPLICABLE FACILITIES: | Wabash, IN, USA |
| 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.

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 Thermafiber UltraBatt Mineral Wool Insulation.
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.
## 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

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### 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

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

### 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 (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

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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.