Thermafiber® Safing Mineral Wool Insulation- Unfaced by Owens Corning

CLASSIFICATION: 07 21 13.19 Mineral Board Insulation

PRODUCT DESCRIPTION: Thermafiber® Safing mineral wool insulation products are designed to provide enhanced fire protection in perimeter fire containment systems, floor and wall penetrations, construction joints, and other fire stopping applications. These products are non-combustible, moisture-resistant, non-corrosive, non-deteriorating, mildew-resistant and vermin-resistant. Thermafiber® Safing provides thermal insulation, fire containment, and enhanced acoustical performance in many different UL and Intertek (formerly OPL) listed fire containment assemblies of 1, 2, and 3-hr ratings.

Section 1: Summary

Basic 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
- Considered
- Partially Considered
- Not Considered
- Explanation(s) provided for Residuals/Impurities?
- Yes
- No

All Substances Above the Threshold Indicated Are:

- Characteized
- Screened
- Identified

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

INVENTORY AND SCREENING NOTES:
Substances representing 100% of the product weight meet the 100 ppm Threshold and are Screened.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

VOC emissions: NA
Multi-attribute: Environmental Product Declaration (EPD) by UL - Product Specific
Recycled content: ICC-ES VAR Environmental Report™

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared

SCREENING DATE: 2019-04-22
PUBLISHED DATE: 2019-05-30
EXPIRY DATE: 2022-04-22

Thermafiber® Safing Mineral Wool Insulation- Unfaced
hpdrepository.hpd-collaborative.org

HPD v2.1.1 created via HPDC Builder Page 1 of 6
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® SAFING MINERAL WOOL INSULATION- UNFACED

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: 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: 2019-04-22
%
90.00 - 98.00
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 insulation 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.

UREA PHENOL FORMALDEHYDE

ID: 25104-55-6
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-04-22
%
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: 2019-04-22
%
0.01 - 0.10
GS: LT-P1
RC: None
NANO: No
ROLE: Catalyst
### Endocrine Disruptors

#### TEDX - Potential Endocrine Disruptors

**Substance Notes:** Used as a catalyst to speed 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

<table>
<thead>
<tr>
<th>%: 0.00 - 0.10</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: De-Dusting Agent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HAZARD TYPE</strong></td>
<td><strong>AGENCY AND LIST TITLES</strong></td>
<td><strong>WARNINGS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - GHS (H-Statements)</td>
<td>H350 - May cause cancer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - REACH Annex XVII CMRs</td>
<td>Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>ChemSec - SIN List</td>
<td>CMR - Carcinogen, Mutagen &amp;/or Reproductive Toxicant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 3 - Severe Hazard to Waters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - Annex VI CMRs</td>
<td>Carcinogen Category 1B - Presumed Carcinogen based on animal evidence</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>Australia - GHS</td>
<td>H350 - May cause cancer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Substance Notes:** The de-dusting agent is used to reduce the dust.

### Residual Oils, Petroleum, Hydrotreated

**Id:** 64742-57-0

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

<table>
<thead>
<tr>
<th>%: 0.00 - 0.50</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: De-Dusting Agent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HAZARD TYPE</strong></td>
<td><strong>AGENCY AND LIST TITLES</strong></td>
<td><strong>WARNINGS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PBT</td>
<td>EC - CEPA DSL</td>
<td>Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - GHS (H-Statements)</td>
<td>H350 - May cause cancer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - REACH Annex XVII CMRs</td>
<td>Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man</td>
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<tr>
<td>MULTIPLE</td>
<td>ChemSec - SIN List</td>
<td>CMR - Carcinogen, Mutagen &amp;/or Reproductive Toxicant</td>
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<td></td>
</tr>
</tbody>
</table>

**Substance Notes:** The de-dusting agent that is used to reduce the dust.
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 | ISSUE DATE: | 2014-04-01 |
| 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. |

**MULTI-ATTRIBUTE**

| CERTIFYING PARTY: | Third Party | ISSUE DATE: | 2014-10-01 |
| CERTIFICATION AND COMPLIANCE NOTES: | Environmental Product Declaration (EPD) by UL - Product Specific |

| CERTIFYING PARTY: | Third Party | ISSUE DATE: | 2018-10-01 |
| CERTIFICATION AND COMPLIANCE NOTES: | Recycled Content |

**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.
MANUFACTURER INFORMATION

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

CONTACT NAME: Nassreen Olang
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 (insufficient data to benchmark)

Reycled 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.