

CLASSIFICATION: 07-12-16 Blanket Insulation

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Knauf Insulation's EcoBatt insulation combines ECOSE Technology with sand—one of the world's most abundant resources—and a high degree of recycled glass. This product comes with an Foil-Scrim- Kraft vapor retarder that is acceptable for exposed applications from a fire hazard classification (25FS/50SD) standpoint. With a bio-based binder adhesive, EcoBatt® insulation products are very interior friendly as certified by the UL Environment Greenguard Gold program for indoor air quality. This product is also validated to be formaldehyde free. EcoBatt uses an industry leading degree of recycled glass which is also validated by UL. This product also has an EPD.

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

Explanation(s) provided  
for Residuals/Impurities?

- Yes
- No

Are All Substances Above the Threshold Indicated:

Characterized

Percent Weight and Role Provided?

- Yes
- No

Screened

Using Priority Hazard Lists with Results Disclosed?

- Yes
- No

Identified

Name and Identifier Provided?

- 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](#)

ECOBATT(R) FSK FACED | FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE  
CONTENT ≤18 % BY WEIGHT (FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH  
OXIDE CONTENT ≤18 % BY WEIGHT) [LT-UNK](#) | HIGH FRUCTOSE CORN SYRUP [NoGS](#) | KRAFT PAPER (KRAFT PAPER)  
[NoGS](#) | AMMONIUM SULFATE (AMMONIUM SULFATE) [LT-P1](#) | END ASPHALT (ASPHALT) [LT-1](#) | CAN ALUMINUM [LT-P1](#)  
| RES | PHY | END STYRENE BUTADIENE RUBBER (SBR) (STYRENE BUTADIENE RUBBER (SBR)) [LT-UNK](#)  
CHLORINATED FLAME RETARDANTS (CFR) (CHLORINATED FLAME RETARDANTS (CFR)) [NoGS](#) | PBT (3-  
AMINOPROPYL)TRIETHOXYSILOXANE [LT-UNK](#) | MAM | SKI |

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:

The product presented is as a complete nominal composite with all ingredients 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 content: GreenGuard - Gold (previously Children & Schools)  
Recycled content: UL Environmental Claim Validation - Recycled content  
Other: EUCEB  
Formaldehyde content: UL Environmental Claim Validation - Formaldehyde Free

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:  
VERIFICATION #:

SCREENING DATE: 2017-08-24

PUBLISHED DATE: 2017-09-07

EXPIRY DATE: 2020-08-24

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

**ECOBATT(R) FSK FACED**

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: Partially

RESIDUALS AND IMPURITIES NOTES: It is known that the minerals used to make all glass can have trace levels of impurities.

OTHER PRODUCT NOTES: It is conjectured that High Fructose Corn Syrup could have trace levels of impurities not associated with farming procedures.

**FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT (FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT)** ID: 65997-17-3

%: 92.4510 - 92.4510	GS: LT-UNK	RC: Both	NANO: No	ROLE: The insulating or sound absorbing portion of the products
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: The glass formulation of this product is continually audited by the EUCEB exoneration process.

**HIGH FRUCTOSE CORN SYRUP** ID: 57-48-7

%: 3.9040 - 3.9040	GS: NoGS	RC: None	NANO: No	ROLE: Primary part of the binder adhesive that gives the product shape and brown color
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maillard Reaction

**KRAFT PAPER (KRAFT PAPER)** ID: Not registered

%: 1.3210 - 1.3210	GS: NoGS	RC: None	NANO: No	ROLE: Part of the vapor retarder laminate
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Paper adds structure to the vapor retarder

**AMMONIUM SULFATE (AMMONIUM SULFATE)** ID: 7783-20-2

%: 0.8158 - 0.8158	GS: LT-P1	RC: None	NANO: No	ROLE: Part of the binder adhesive
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
ENDOCRINE	TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

SUBSTANCE NOTES: Part of the cured binder mixture and not possible to liberate from the product

**ASPHALT (ASPHALT)** ID: 8052-42-4

%: 0.6104 - 0.6104	GS: LT-1	RC: None	NANO: No	ROLE: Lends vapor resistance and acts as a hot melt adhesive
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
CANCER	IARC Group 2b - Possibly carcinogenic to humans
CANCER	US CDC - Occupational Carcinogens Occupational Carcinogen
CANCER	MAK Carcinogen Group 2 - Considered to be carcinogenic for man

SUBSTANCE NOTES: Part of the vapor retarder laminate and has no apparent emission in chamber tests on the product.

**ALUMINUM** ID: 7429-90-5

%: 0.4659 - 0.4659	GS: LT-P1	RC: None	NANO: No	ROLE: Provides a low flame spread and low vapor permeance to the vapor retarder facing
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammable solid
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: This is aluminum foil and is not unlike that found in households, but perhaps thinner.

**STYRENE BUTADIENE RUBBER (SBR) (STYRENE BUTADIENE RUBBER (SBR))**

ID: 9003-55-8

%: 0.2348 - 0.2348	GS: LT-UNK	RC: None	NANO: No	ROLE: Adhesive in the vapor retarder laminate
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES: Adhesive that bonds the thin vapor retarder laminate together				

**CHLORINATED FLAME RETARDANTS (CFR) (CHLORINATED FLAME RETARDANTS (CFR))**

ID: Not registered

%: 0.1836 - 0.1836	GS: NoGS	RC: None	NANO: No	ROLE: This is a fire retardant in the facer
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
PBT	EHP - San Antonio Statement on BFRs & CFRs	Flame retardant substance class of concern for PB&T & long range transport		
SUBSTANCE NOTES: This product is potentially used in exposed applications and therefor must meet a 25FS/50SD fire hazard classification.				

**(3-AMINOPROPYL)TRIETHOXYSILANE**

ID: Undisclosed

%: 0.0136 - 0.0136	GS: LT-UNK	RC: None	NANO: No	ROLE: Cured coating to promote binder adhesion to glass
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed		
SKIN IRRITATION	EU - R-phrases	R34 - Causes burns		
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage		
SUBSTANCE NOTES: This is a hard cured coating on the glass and is not available as a liquid on the product				

**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.

<b>VOC CONTENT</b>	<b>GreenGuard - Gold (previously Children &amp; Schools)</b>		
CERTIFYING PARTY: Third Party	ISSUE DATE: 2009-11-13	EXPIRY DATE: 2017-11-07	CERTIFIER OR LAB: UL GreenGuard
APPLICABLE FACILITIES: All Knauf facilities in North America			
CERTIFICATE URL: <a href="https://spot.ulprospector.com/en/na/BuiltEnvironment/Suppliers/32846/Knauf-Insulation/Benefits/26070/GREENGUARD-Gold-Certification/Functionalities/33938/Insulation?st=1&amp;so=func_33938+bs_32846&amp;sl=50839711">https://spot.ulprospector.com/en/na/BuiltEnvironment/Suppliers/32846/Knauf-Insulation/Benefits/26070/GREENGUARD-Gold-Certification/Functionalities/33938/Insulation?st=1&amp;so=func_33938+bs_32846&amp;sl=50839711</a>			
CERTIFICATION AND COMPLIANCE NOTES: Also see formaldehyde free validation			

<b>RECYCLED CONTENT</b>	<b>UL Environmental Claim Validation - Recycled content</b>		
CERTIFYING PARTY: Third Party	ISSUE DATE: 2012-08-10	EXPIRY DATE: 2018-07-20	CERTIFIER OR LAB: UL Environmental
APPLICABLE FACILITIES: All Knauf facilities in North America			
CERTIFICATE URL: <a href="https://spot.ulprospector.com/en/na/BuiltEnvironment/Detail/32846/656161/Knauf-EcoBatt-with-ECOSE-Technology?st=1&amp;sl=50839747&amp;crit=SW5zdWxhdGlvbiA%2bIEtuYXVmlEluc3VsYXRpb24gPiBSZWNSY2xlZCBBb250ZW50IC0gQ2xhaW0gVmFsaWRhdGlvbg%3d%3d&amp;ss=2">https://spot.ulprospector.com/en/na/BuiltEnvironment/Detail/32846/656161/Knauf-EcoBatt-with-ECOSE-Technology?st=1&amp;sl=50839747&amp;crit=SW5zdWxhdGlvbiA%2bIEtuYXVmlEluc3VsYXRpb24gPiBSZWNSY2xlZCBBb250ZW50IC0gQ2xhaW0gVmFsaWRhdGlvbg%3d%3d&amp;ss=2</a>			
CERTIFICATION AND COMPLIANCE NOTES: Certified annually by UL Environment			

<b>OTHER</b>	<b>EUCEB</b>
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APPLICABLE FACILITIES: All Knauf facilities that manufacture the product

CERTIFICATE URL: [http://www.bcca.be/index.cfm?](http://www.bcca.be/index.cfm?cat=search&action=certification_customer&customer_id=19600)

cat=search&action=certification\_customer&customer\_id=19600

CERTIFICATION AND COMPLIANCE NOTES: Plants are audited bi-annually

**FORMALDEHYDE CONTENT**

**UL Environmental Claim Validation - Formaldehyde Free**

CERTIFYING PARTY: Third Party

ISSUE DATE: 2009-11-07

EXPIRY DATE: 2017-11-07

CERTIFIER OR LAB: UL Air Quality Sciences

APPLICABLE FACILITIES: All Knauf facilities that manufacture the product

CERTIFICATE URL:

[https://spot.ulprospector.com/en/na/BuiltEnvironment/Suppliers/32846/Knauf-Insulation/Benefits/26066/Formaldehyde-Free---Claim-Validation/Functionalities/33938/Insulation?](https://spot.ulprospector.com/en/na/BuiltEnvironment/Suppliers/32846/Knauf-Insulation/Benefits/26066/Formaldehyde-Free---Claim-Validation/Functionalities/33938/Insulation?st=1&so=func_33938+bs_32846&sl=51134838)

st=1&so=func\_33938+bs\_32846&sl=51134838

CERTIFICATION AND COMPLIANCE NOTES: This is done by a 3rd party auditing process

**LCA**

**Environmental Product Declaration (EPD) by UL**

CERTIFYING PARTY: Third Party

ISSUE DATE: 2013-11-

EXPIRY DATE: 2018-

CERTIFIER OR LAB: UL

APPLICABLE FACILITIES: All Knauf facilities that manufacture the product

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11-18

Environmental

CERTIFICATE URL:

[http://my.ulenvironment.com/productDocuments/358/15/Knauf\\_101.1a\\_TransparencySummary\\_FacedBatt\\_14Nov2013f.pdf](http://my.ulenvironment.com/productDocuments/358/15/Knauf_101.1a_TransparencySummary_FacedBatt_14Nov2013f.pdf)

CERTIFICATION AND COMPLIANCE NOTES: SM Transparency report to be issued November 2017

**+ 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.

**COMMON STAPLES MAY BE USED**

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Product is available with and without a stapling flange. It is dependent on product preference or code, or composition of the studs forming the cavity being insulated.

**📖 Section 5: General Notes**

This disclosure is based on a common nominal product using FSK facing, disclosed at 100%

**🔗 Section 6: References**

**MANUFACTURER INFORMATION**

MANUFACTURER: **Knauf Insulation, Inc.**

ADDRESS: **One Knauf Drive**

**Shelbyville IN 46176, USA**

WEBSITE: **www.knaufinsulation.us**

CONTACT NAME: **Scott Miller**

TITLE: **Director Sustainability**

PHONE: **317-512-1016**

EMAIL: **scott.miller@knaufinsulation.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

EcoBatt(R) Foil-Scrim-Kraft (FSK) Faced  
[www.hpd-collaborative.org](http://www.hpd-collaborative.org)

**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.*