

HPD UNIQUE IDENTIFIER: 25164

CLASSIFICATION: 07 21 00 Thermal Insulation

PRODUCT DESCRIPTION: Fiberglass batt insulation with an asphalt coated foil scrim kraft (FSK) vapor retarder. The glass is bonded together with bio-based binder derived from corn and the glass has a high degree of recycled glass content. The product is validated by third party to be formaldehyde free.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold level	Residuals/Impurities	<i>All Substances Above the Threshold Indicated Are:</i> Characterized <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No % weight and role provided for all substances. Screened <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No All substances screened using Priority Hazard Lists with results disclosed. Identified <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.
<input type="radio"/> Nested Materials Method	<input checked="" type="radio"/> 100 ppm	<input type="radio"/> Considered	
<input checked="" type="radio"/> Basic Method	<input type="radio"/> 1,000 ppm	<input checked="" type="radio"/> Partially Considered	
Threshold Disclosed Per	<input type="radio"/> Per GHS SDS	<input type="radio"/> Not Considered	
<input type="radio"/> Material	<input type="radio"/> Other	Explanation(s) provided for Residuals/Impurities? <input checked="" type="radio"/> Yes <input type="radio"/> 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 (FSK FACED) | GLASS, OXIDE, CHEMICALS | LT-UNK | SYRUPS, HYDROLYZED STARCH | LT-UNK | AMMONIUM SULFATE | LT-P1 | END
MINERAL OIL | LT-1 | CAN | PBT | MUL | ALUMINUM FOIL | BM-1 | END | RES | PHY ASPHALT COATING | LT-1 | CAN | CELLULOSE | LT-UNK | RES | SILANE | LT-UNK | SKI | ALUMINA TRIHYDRATE | BM-2 | ANTIMONY OXIDE (ANTIMONY TRIOXIDE) | BM-1 | CAN | MUL | UNDISCLOSED | NoGS]

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:

There are potential trace level materials in mined materials used in glass making but the level is de minimis and can vary depending on where materials are mined or sourced. There are possibly trace level materials in organic binder from agricultural impacts and perhaps appear for the same reason depending on its source.

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: GreenGuard Gold
 Formaldehyde content: UL Formaldehyde Free

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified? <input type="radio"/> Yes <input checked="" type="radio"/> No	PREPARER: Self-Prepared VERIFIER: VERIFICATION #:	SCREENING DATE: 2021-06-25 PUBLISHED DATE: 2021-06-25 EXPIRY DATE: 2024-06-25
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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 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

ECOBATT (FSK FACED)

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Partially

RESIDUALS AND IMPURITIES NOTES: Trace levels of Impurities can be found in the minerals used in the glass making process. It is perhaps possible that trace level impurities exist in corn syrup from agricultural impacts which would also potentially reside within corn syrup used in households.

OTHER PRODUCT NOTES: There are potential trace level materials in mined materials used in glass making but the level is de minimis and can vary depending on where materials are mined or sourced. There are possibly trace level materials in organic binder from agricultural impacts and perhaps appear for the same reason depending on its source.

GLASS, OXIDE, CHEMICALS

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-25 11:43:04

#: 80.0000 - 95.0000 GS: LT-UNK RC: Both NANO: Unknown SUBSTANCE ROLE: Insulator

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

SYRUPS, HYDROLYZED STARCH

ID: 8029-43-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-25 11:43:05

#: 10.0000 - 15.0000 GS: LT-UNK RC: None NANO: Unknown SUBSTANCE ROLE: Binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

AMMONIUM SULFATE

ID: 7783-20-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-25 11:43:05

#: 3.0000 - 5.0000 GS: LT-P1 RC: None NANO: Unknown SUBSTANCE ROLE: Catalyst

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES:

MINERAL OIL

ID: 64742-01-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-06-25 11:43:06

#: 1.0000 - 5.0000

GS: LT-1

RC: None

NANO: Unknown

SUBSTANCE ROLE: Dedusting

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	EU - GHS (H-Statements)	H350 - May cause cancer
CAN	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
CAN	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CAN	GHS - Australia	H350 - May cause cancer

SUBSTANCE NOTES:

ALUMINUM FOIL

ID: 7429-90-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-06-25 11:43:06**

#: 1.0000 - 2.0000

GS: BM-1

RC: None

NANO: Unknown

SUBSTANCE ROLE: Water resistance

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
PHY	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases
PHY	EU - GHS (H-Statements)	H228 - Flammable solid

SUBSTANCE NOTES:

ASPHALT COATING

ID: 8052-42-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-06-25 11:43:07**

#: 1.0000 - 2.0000

GS: LT-1

RC: None

NANO: Unknown

SUBSTANCE ROLE: Adhesive

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CAN	CA EPA - Prop 65	Carcinogen
CAN	IARC	Group 2b - Possibly carcinogenic to humans

SUBSTANCE NOTES:

CELLULOSE

ID: 9004-34-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-06-25 11:43:07**

%: 1.0000 - 2.0000	GS: LT-UNK	RC: None	NANO: Unknown	SUBSTANCE ROLE: Water resistance
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		
SUBSTANCE NOTES:				

SILANE ID: 919-30-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-25 11:43:08		
%: 0.1000 - 1.0000	GS: LT-UNK	RC: None	NANO: Unknown	SUBSTANCE ROLE: Binder
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
SKI	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage		
SUBSTANCE NOTES:				

ALUMINA TRIHYDRATE ID: 21645-51-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-25 11:43:08		
%: 0.0100 - 1.0000	GS: BM-2	RC: None	NANO: Unknown	SUBSTANCE ROLE: Flame retardant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES:				

ANTIMONY OXIDE (ANTIMONY TRIOXIDE) ID: 1309-64-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-25 11:43:09		
%: 0.0100 - 1.0000	GS: BM-1	RC: None	NANO: Unknown	SUBSTANCE ROLE: Flame retardant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer		
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant		
CAN	CA EPA - Prop 65	Carcinogen		
CAN	IARC	Group 2b - Possibly carcinogenic to humans		
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man		
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen		
CAN	GHS - Japan	Carcinogenicity - Category 1B [H350]		
SUBSTANCE NOTES:				

UNDISCLOSED ID: Undisclosed

HAZARD SCREENING METHOD: Toxnot Chemical Hazard Screening Library		HAZARD SCREENING DATE: 2021-06-25 11:29:42		
%: 0.0100 - 1.0000	GS: NoGS	RC: None	NANO: Unknown	SUBSTANCE ROLE: Flame retardant

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: proprietary flame retardant comprising <1% of product composition

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

GreenGuard Gold

CERTIFYING PARTY: Third Party

ISSUE DATE: 2009-11-

EXPIRY DATE: 2021-

CERTIFIER OR LAB: UL

APPLICABLE FACILITIES: all

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12-20

CERTIFICATE URL: https://spot.ul.com/main-app/products/detail/5ad1e81d55b0e82d946a0b29?page_type=Products%20Catalog

CERTIFICATION AND COMPLIANCE NOTES:

FORMALDEHYDE CONTENT

UL Formaldehyde Free

CERTIFYING PARTY: Third Party

ISSUE DATE: 2009-11-

EXPIRY DATE: 2021-

CERTIFIER OR LAB: UL

APPLICABLE FACILITIES: all

13

12-20

CERTIFICATE URL: https://spot.ul.com/main-app/products/detail/5ad1e81d55b0e82d946a0b29?page_type=Products%20Catalog

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

This disclosure is based on a common nominal product using FSK facing.

MANUFACTURER INFORMATION

MANUFACTURER: **Knauf Insulation, Inc.**
 ADDRESS: **1 Knauf Dr**
Shelbyville Indiana 46176, USA
 WEBSITE: **www.knaufnorthamerica.com**

CONTACT NAME: **Brett Welch**
 TITLE: **Dir. Sustainability**
 PHONE: **317-398-4434**
 EMAIL: **brett.welch@knauf.com**

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
BM-2 Benchmark 2 (use but search for safer substitutes)	NoGS No GreenScreen.
BM-1 Benchmark 1 (avoid - chemical of high concern)	
BM-U Benchmark Unspecified (due to insufficient data)	
LT-P1 List Translator Possible 1 (Possible Benchmark-1)	

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

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.