

CLASSIFICATION: 23 07 13 Duct Insulation

PRODUCT DESCRIPTION: Manson Alley Wrap™ Duct Wrap with ECOSE® Technology is a thermal and acoustical insulation blanket made from highly resilient, inorganic glass mineral wool bonded by ECOSE® Technology. This product has a foil-scrim-kraft vapor retarder facer . The composite product is UL Classified as a 25/50 Flame Spread/Smoke Developed product from a fire hazard classification stand point. The product is designed as an insulator for the exterior of metal ducts. This product meets GREENGUARD Gold criteria from a an indoor air quality standpoint and is validated to be formaldehyde free by UL Environment. The recycled content is also validated annually by UL Environment.

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](#)

[ALLEY WRAP B](#) | [FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT](#) | [LT-UNK](#) | [GLUCOSE](#) | [BM-3](#) | [KRAFT PAPER](#) | [NoGS](#) | [AMMONIUM SULFATE](#) | [LT-P1](#) | [END](#) | [POLYVINYL ACETATE \(PVA\)](#) | [LT-UNK](#) | [ALUMINUM](#) | [LT-P1](#) | [RES](#) | [END](#) | [PHY ALUMINA TRIHYDRATE](#) | [BM-2](#) | [RES](#) | [SILANE](#) | [LT-UNK](#) | [HALOGENATED FLAME RETARDANTS \(HFRS\)](#) | [NoGS](#) | [ANTIMONY TRIOXIDE](#) | [BM-1](#) | [MAM](#) | [CAN](#) | [AQU](#) | [MUL](#)]

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This HPD was created using basic inventory. This inventory does represent 100% of ingredients.

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 emissions: Formaldehyde Free Validation
Recycled content: Recycled Content Validation
Other: EUCEB biosoluble fiber exoneration

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
- No

PREPARER: **Self-Prepared**

VERIFIER:

VERIFICATION #:

SCREENING DATE: **2017-07-20**

PUBLISHED DATE:

EXPIRY DATE: **2020-07-20**

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, available on the HPDC website at www.hpd-collaborative.org/hpd-2-1-standard

ALLEY WRAP B

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Partially

RESIDUALS AND IMPURITIES NOTES: It is known that a trace level of impurities can be found in the materials used to make this product.

OTHER PRODUCT NOTES: Trace impurities can be found in the minerals used to make glass. It is possible that bio-based materials could impurities associated with agriculture.

FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT

ID: 65997-17-3

#: 85.0100 - 85.0100 GS: LT-UNK RC: Both NANO: No ROLE: The insulating fiber of the product

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: All Knauf Insulation processes are audited for compliance with the EUCEB exoneration process.

GLUCOSE

ID: 50-99-7

#: 5.1300 - 5.1300 GS: BM-3 RC: None NANO: No ROLE: The primary portion of the binder adhesive giving the product shape

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Gives the product it's brown color

KRAFT PAPER

ID: Not registered

#: 3.3300 - 3.3300 GS: NoGS RC: UNK NANO: No ROLE: Part of the vapor retarder laminate

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Lends flexibility and structure to the vapor retarder laminate

AMMONIUM SULFATE

ID: 7783-20-2

#: 2.1900 - 2.1900 GS: LT-P1 RC: None NANO: No ROLE: Part of the cured/reacted binder adhesive mixture

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: Part of the cured/reacted binder adhesive mixture

POLYVINYL ACETATE (PVA)

ID: 9003-20-7

#: 1.6400 - 1.6400 GS: LT-UNK RC: None NANO: No ROLE: Adhesive that bonds the vapor retarder to the fiber glass basewool

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Analogous to household white glue.

ALUMINUM

ID: 7429-90-5

#: 1.1300 - 1.1300 GS: LT-P1 RC: None NANO: No ROLE: Part of the vapor retarder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

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

SUBSTANCE NOTES: This is aluminum foil, analogous to that found in a household, but thinner perhaps. Aluminum foil is not considered to be hazardous.

ALUMINA TRIHYDRATE

ID: 21645-51-2

#: 0.3300 - 0.3300	GS: BM-2	RC: None	NANO: No	ROLE: Part of the vapor retarder laminate
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only		

SUBSTANCE NOTES: The fire performance of this product is required to be 25FS/50SD

SILANE

ID: 7803-62-5

#: 0.1500 - 0.1500	GS: LT-UNK	RC: None	NANO: No	ROLE: Additive to promote adhesion of binder to the fiber
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: This is a cured coating and is not available as a liquid in the product

HALOGENATED FLAME RETARDANTS (HFRS)ID: **Not registered**

#: 0.1300 - 0.1300	GS: NoGS	RC: UNK	NANO: No	ROLE: Part of the vapor retarder laminate
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: The fire performance of this product is required to be 25FS/50SD

ANTIMONY TRIOXIDE

ID: 1309-64-4

#: 0.1300 - 0.1300	GS: BM-1	RC: None	NANO: No	ROLE: Part of the vapor retarder laminate
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)		
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed		
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects		
ACUTE AQUATIC	EU - R-phrases	R51 - Toxic to Aquatic Organisms		
CANCER	IARC	Group 2b - Possibly carcinogenic to humans		
CANCER	CA EPA - Prop 65	Carcinogen		
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects		
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		

SUBSTANCE NOTES: The fire performance of this product is required to be 25FS/50SD

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: EXPIRY DATE: CERTIFIER OR LAB:

APPLICABLE FACILITIES: **Shelbyville, IN** where the product is manufactured

DATE: DATE: LAB:

CERTIFICATE URL: [https://spot.ul.com/main-app/products/detail/5ad1f1e655b0e82d946ad90a?](https://spot.ul.com/main-app/products/detail/5ad1f1e655b0e82d946ad90a?filter=Product%2520Type%3AInsulation,Manufacturer%2520%252F%2520Brands%3AManson%2520Insulation%2520Products%2520Ltd.&page_type=Products%20Catalog)

2009- 2019- Greenguard

filter=Product%2520Type%3AInsulation,Manufacturer%2520%252F%2520Brands%3AManson%2520Insulation%2520Products%2520Ltd.&page_type=Products%20Catalog

11-13 11-13 UL

CERTIFICATION AND COMPLIANCE NOTES: **Both faced and unfaced products are certified**

FORMALDEHYDE EMISSIONS

Formaldehyde Free Validation

CERTIFYING PARTY: **Third Party**

ISSUE DATE: EXPIRY DATE: CERTIFIER OR LAB:

APPLICABLE FACILITIES: **Shelbyville, Indiana** where the product is manufactured

DATE: DATE: LAB:

CERTIFICATE URL: [https://spot.ul.com/main-app/products/detail/5ad1f1e655b0e82d946ad90a?](https://spot.ul.com/main-app/products/detail/5ad1f1e655b0e82d946ad90a?filter=Product%2520Type%3AInsulation,Manufacturer%2520%252F%2520Brands%3AManson%2520Insulation%2520Products%2520Ltd.&page_type=Products%20Catalog)

2011- 2019- Greenguard

filter=Product%2520Type%3AInsulation,Manufacturer%2520%252F%2520Brands%3AManson%2520Insulation%2520Products%2520Ltd.&page_type=Products%20Catalog

07-20 09-04 UL

CERTIFICATION AND COMPLIANCE NOTES:

RECYCLED CONTENT

Recycled Content Validation

CERTIFYING PARTY: **Third Party**

ISSUE DATE: EXPIRY DATE: CERTIFIER OR LAB:

APPLICABLE FACILITIES: **Shelbyville, IN** where the product is manufactured

DATE: DATE: LAB: **UI**

CERTIFICATE URL: [https://spot.ul.com/main-app/products/detail/5ad1f1e655b0e82d946ad90a?](https://spot.ul.com/main-app/products/detail/5ad1f1e655b0e82d946ad90a?filter=Product%2520Type%3AInsulation,Manufacturer%2520%252F%2520Brands%3AManson%2520Insulation%2520Products%2520Ltd.&page_type=Products%20Catalog)

2012- 2019- Environ

filter=Product%2520Type%3AInsulation,Manufacturer%2520%252F%2520Brands%3AManson%2520Insulation%2520Products%2520Ltd.&page_type=Products%20Catalog

08-10 10-11

CERTIFICATION AND COMPLIANCE NOTES:

OTHER

EUCEB biosoluble fiber exoneration

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2011-10-11**

EXPIRY DATE:

CERTIFIER OR LAB:

APPLICABLE FACILITIES: **Shelbyville, IN** where the product is manufactured

<http://www.euceb.org/uploads/Modules/Plants/404.pdf>

CERTIFICATE URL: <http://www.euceb.org/uploads/Modules/Plants/404.pdf>

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.

STAPLES OR FSK TAPE OF THE SAME CONSTRUCTION OF THE VAPOR RETARDER FACER

HPD URL: **No HPD link provided**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

To staple the facer overlap once placed on the duct and the tape to seal the stapled lap

Section 5: General Notes

The vapor retarder laminate used on this product must meet very stringent fire requirements and therefore has fire retarding materials. Because the materials are bound within the adhesive it is highly unlikely that there is exposure potential during installation or in-service.

MANUFACTURER INFORMATION

MANUFACTURER: **Knauf Insulation, Inc.**
 ADDRESS: **One knauf Drive**

Shelbyville IN 46176, USA
 WEBSITE: **knaufinsulation.us**

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

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

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.