

HPD UNIQUE IDENTIFIER: 23137

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 fiberglass 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 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
- Other

Residuals/Impurities

- Considered
- Partially Considered
- Not Considered

All Substances Above the Threshold Indicated Are:

Characterized Yes Ex/SC Yes No
% weight and role provided for all substances.

Threshold Disclosed Per

- Material
- Product

Explanation(s) provided for Residuals/Impurities?

- Yes No

Screened Yes Ex/SC Yes No
All substances screened using Priority Hazard Lists with results disclosed.

Identified Yes Ex/SC Yes 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.

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 ALUMINUM BM-1 | END | PHY | RES POLYVINYL ACETATE (PVA) LT-UNK ALUMINA TRIHYDRATE BM-2 SILANE LT-UNK HALOGENATED FLAME RETARDANTS (HFRS) NoGS ANTIMONY TRIOXIDE BM-1 | CAN | 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: 2020-12-11

PUBLISHED DATE: 2020-12-11

EXPIRY DATE: 2023-12-11

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

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

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-12-11		
%: 80.0000 - 90.0000	GS: LT-UNK	RC: Both	NANO: No	SUBSTANCE ROLE: Insulator
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: All Knauf Insulation processes are audited for compliance with the EUCEB exoneration process.				

GLUCOSE ID: 50-99-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-12-11		
%: 3.0000 - 6.0000	GS: BM-3	RC: None	NANO: No	SUBSTANCE ROLE: Binder
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Gives the product it's brown color				

KRAFT PAPER ID: Not registered

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-12-11		
%: 3.0000 - 5.0000	GS: NoGS	RC: UNK	NANO: No	SUBSTANCE ROLE: Water resistance
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Lends flexibility and structure to the vapor retarder laminate				

AMMONIUM SULFATE ID: 7783-20-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-12-11		
%: 2.0000 - 3.0000	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Binder
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
SUBSTANCE NOTES: Part of the cured/reacted binder adhesive mixture				

ALUMINUM ID: 7429-90-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-12-11		
%: 1.1300 - 1.1300	GS: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Water resistance
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
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		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		

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

POLYVINYL ACETATE (PVA)

ID: 9003-20-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-12-11				
%: 1.0000 - 2.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Adhesive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Analogous to household white glue.				

ALUMINA TRIHYDRATE

ID: 21645-51-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-12-11				
%: 0.1000 - 0.5000	GS: BM-2	RC: None	NANO: No	SUBSTANCE ROLE: Flame retardant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: The fire performance of this product is required to be 25FS/50SD				

SILANE

ID: 7803-62-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-12-11				
%: 0.1000 - 0.2000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Adhesive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard 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

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-12-11				
%: 0.1000 - 0.2000	GS: NoGS	RC: UNK	NANO: No	SUBSTANCE ROLE: Flame retardant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: The fire performance of this product is required to be 25FS/50SD				

ANTIMONY TRIOXIDE

ID: 1309-64-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-12-11				
%: 0.1000 - 0.2000	GS: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Flame retardant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	IARC	Group 2b - Possibly carcinogenic to humans		
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		
CANCER	CA EPA - Prop 65	Carcinogen		
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen		
CANCER	GHS - Japan	Carcinogenicity - Category 1B [H350]		
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		2009-11-13	2021-12-20	Greenguard UL
CERTIFICATE URL: 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				
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		2011-07-20	2021-12-20	Greenguard UL
CERTIFICATE URL: 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				
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		2012-08-10	2021-07-20	Environmental
CERTIFICATE URL: 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				
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: **www.knaufnorthamerica.com**

CONTACT NAME: **Brett Welch**
 TITLE: **Director Sustainability**
 PHONE: **317-421-1430**
 EMAIL: **brett.welch@knaufinsulation.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.