

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 <input type="radio"/> Nested Materials Method <input checked="" type="radio"/> Basic Method	Threshold level <input checked="" type="radio"/> 100 ppm <input type="radio"/> 1,000 ppm <input type="radio"/> Per GHS SDS <input type="radio"/> Per OSHA MSDS <input type="radio"/> Other	Residuals/Impurities <input type="radio"/> Considered <input checked="" type="radio"/> Partially Considered <input type="radio"/> Not Considered <small>Explanation(s) provided for Residuals/Impurities?</small> <input checked="" type="radio"/> Yes <input type="radio"/> No	<i>Are All Substances Above the Threshold Indicated:</i> Characterized <i>Percent Weight and Role Provided?</i> Screened <i>Using Priority Hazard Lists with Results Disclosed?</i> Identified <i>Name and Identifier Provided?</i>	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Yes <input checked="" 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

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

<div>Third Party Verified? <input type="radio"/> Yes <input checked="" type="radio"/> No</div>	<div>PREPARER: Self-Prepared VERIFIER: VERIFICATION #:</div>	<div>SCREENING DATE: 2017-07-20 PUBLISHED DATE: EXPIRY DATE: 2020-07-20</div>
--	--	---

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 atwww.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: Adhsive that bonds the vapor retarder to the fiber glass basewool
HAZARDS:	AGENCY(ES) 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	

PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases
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 promte adhesion of binder to the fiber
HAZARDS:		AGENCY(ES) 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	EXPIRY	CERTIFIER OR
APPLICABLE FACILITIES: Shelbyville, IN where the product is manufactured		DATE:	DATE:	LAB:
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		2009-11-13	2019-11-13	Greenguard UL
CERTIFICATION AND COMPLIANCE NOTES: Both faced and unfaced products are certified				
FORMALDEHYDE EMISSIONS		Formaldehyde Free Validation		
CERTIFYING PARTY: Third Party		ISSUE	EXPIRY	CERTIFIER OR
APPLICABLE FACILITIES: Shelbyville, Indiana where the product is manufactured		DATE:	DATE:	LAB:
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		2011-07-20	2019-09-04	Greenguard UL
CERTIFICATION AND COMPLIANCE NOTES:				
RECYCLED CONTENT		Recycled Content Validation		
CERTIFYING PARTY: Third Party		ISSUE	EXPIRY	CERTIFIER OR
APPLICABLE FACILITIES: Shelbyville, IN where the product is manufactured		DATE:	DATE:	LAB: UI
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		2012-08-10	2019-10-11	EnviroMetric
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				
CERTIFICATE URL: http://www.euceb.org/uploads/Modules/Plants/404.pdf		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 therefor 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.	CONTACT NAME: Scott Miller
ADDRESS: One knauf Drive	TITLE: Director Sustainability and Product Affairs
Shelbyville IN 46176, USA	PHONE: 317-512-1016
WEBSITE: knaufinsulation.us	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.