

CLASSIFICATION: 230179

PRODUCT DESCRIPTION: Manson Alley Pipe Insulation is a molded, heavy-density, one-piece insulation made from inorganic glass fiber bonded with ECOSE® Technology. It is produced in 3' lengths with or without a factory-applied all service jacket (ASJ). This product is formaldehyde free.

## 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

Are All Substances Above the Threshold Indicated:

Characterized  Yes  No

Percent Weight and Role Provided?

Screened  Yes  No

Using Priority Hazard Lists with Results Disclosed?

Identified  Yes  No

Name and Identifier Provided?

#### Threshold Disclosed Per

- Material
- Product

Explanation(s) provided for Residuals/Impurities?  
 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](#)

**MANSON ALLEY K PIPE INSULATION [ FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT ]** [LT-UNK](#) [GLUCOSE](#) [BM-3](#) [KRAFT PAPER](#) [UNK](#) [ALUMINUM](#) [LT-P1](#) | [RES](#) | [PHY](#) | [END](#) [AMMONIUM PHOSPHATE](#) [LT-UNK](#) [STYRENE BUTADIENE RUBBER \(SBR\)](#) [LT-UNK](#) [ALUMINA TRIHYDRATE \(ALUMINA TRIHYDRATE\)](#) [BM-2](#) | [RES](#) [CHLORINATED FLAME RETARDANTS \(CFR\)](#) [NoGS](#) | [PBT FATTY ACIDS, C18-UNSATD., DIMERS, POLYMERS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE](#) [LT-P1](#) | [MUL](#) [ANTIMONY TRIOXIDE](#) [BM-1](#) | [CAN](#) | [AQU](#) | [MUL](#) [SILANE](#) [LT-UNK](#) ]

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:

There hundreds of pipe insulation sizes. The size used for this analysis is based upon a common pipe insulation, which is the length weighted average size produced. This HPD was done using basic inventory, but 100% of ingredients are 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 emissions: Greenguard Gold  
Formaldehyde emissions: Formaldehyde Free Validation  
Recycled content: Recycled Content Validation  
LCA: EPD

### 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: 2018-07-11

PUBLISHED DATE:  
EXPIRY DATE: 2021-07-11



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

### MANSON ALLEY K PIPE INSULATION

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Partially

RESIDUALS AND IMPURITIES NOTES: Trace level impurities are founds in all things. We only considered that which we have the control of the manufacturing process, as described in other product notes.

OTHER PRODUCT NOTES: There are potential trace level materials in mined materials used in glass making but the level is diminimis and can vary depending on where materials are mined or sourced. There are possibly trace level materials in dextrose (corn syrup) from agricultural impacts and perhaps paper for the same reason depending on its source.

#### FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT $\leq 18$ % BY WEIGHT

ID: 65997-17-3

%: 88.4200 - 88.4200	GS: LT-UNK	RC: Both	NANO: No	ROLE: The insulating portion of the composite product
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The is glass fiber validated by the EUCEB exoneration auditing process.

#### GLUCOSE

ID: 50-99-7

%: 5.2800 - 5.2800	GS: BM-3	RC: None	NANO: No	ROLE: Primary binder adhesive ingredient for the fiber glass that give the product
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The binder adhesive gives the product its brown color

#### KRAFT PAPER

ID: Not registered

%: 2.7300 - 2.7300	GS: UNK	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 is used to give the vapor retarder strength add flexibility

**ALUMINUM**

ID: 7429-90-5

%: **0.8900 - 0.8900** GS: **LT-P1** 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

**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 an aluminum foil, not unlike that found in households, but perhaps thinner

**AMMONIUM PHOSPHATE**

ID: 10124-31-9

%: **0.8800 - 0.8800** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Part of the binder adhesive mixture**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Part of the binder adhesive mixture that is cured in the finished product.

**STYRENE BUTADIENE RUBBER (SBR)**

ID: 9003-55-8

%: **0.6800 - 0.6800** GS: **LT-UNK** RC: **None** 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: This is the adhesive variety that bonds the vapor retarder laminate together.

**ALUMINA TRIHYDRATE (ALUMINA TRIHYDRATE)**

ID: 21645-51-2

%: **0.3400 - 0.3400** 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

**CHLORINATED FLAME RETARDANTS (CFR)**

ID: Not registered

%: **0.3400 - 0.3400** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Part of the vapor retarder laminate**

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

**FATTY ACIDS, C18-UNSATD., DIMERS, POLYMERS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE**

ID: 68082-29-1

%: 0.2700 - 0.2700	GS: LT-P1	RC: None	NANO: No	ROLE: Hot Melt adhesive that bonds the vapor retarder to the fiber glass base wool
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
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SUBSTANCE NOTES: Hot Melt adhesive that bonds the vapor retarder to the fiber glass base wool

**ANTIMONY TRIOXIDE**

ID: 1309-64-4

%: 0.1400 - 0.1400	GS: BM-1	RC: None	NANO: No	ROLE: Part of the vapor retarder laminate
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

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
CANCER	Japan - GHS	Carcinogenicity - Category 1B

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

**SILANE**

ID: 7803-62-5

%: 0.0200 - 0.0200	GS: LT-UNK	RC: None	NANO: No	ROLE: Cured glass coating
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: The silane is cured and not available as a liquid

## 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: <b>Third Party</b>	ISSUE DATE: <b>2009-</b>	EXPIRY DATE:	CERTIFIER OR LAB: <b>Greenguard</b>
APPLICABLE FACILITIES: <b>Shelbyville, IN where the product is manufactured</b>	<b>11-13</b>		<b>UL</b>
CERTIFICATE URL: <a href="https://builder.hpd-collaborative.org/v21/records/6018/certifications/3773/edit">https://builder.hpd-collaborative.org/v21/records/6018/certifications/3773/edit</a>			
CERTIFICATION AND COMPLIANCE NOTES: <b>Both faced and unfaced products are certified</b>			

### FORMALDEHYDE EMISSIONS

#### Formaldehyde Free Validation

CERTIFYING PARTY: <b>Third Party</b>	ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
APPLICABLE FACILITIES: <b>Shelbyville, Indiana where the product is manufactured</b>	<b>2011-</b>	<b>2017-</b>	<b>Greenguard</b>
CERTIFICATE URL: <a href="https://spot.ulprospector.com/en/na/BuiltEnvironment/Detail/32846/662416/Atmosphere-Duct-Wrap-with-ECOSE-Technology?st=1&amp;sl=47678479&amp;crit=SW5zdWxhdGlvbiA%2bEtuYXVmlEluc3VsYXRpb24%3d&amp;ss=2">https://spot.ulprospector.com/en/na/BuiltEnvironment/Detail/32846/662416/Atmosphere-Duct-Wrap-with-ECOSE-Technology?st=1&amp;sl=47678479&amp;crit=SW5zdWxhdGlvbiA%2bEtuYXVmlEluc3VsYXRpb24%3d&amp;ss=2</a>	<b>07-20</b>	<b>11-04</b>	<b>UL</b>
CERTIFICATION AND COMPLIANCE NOTES:			

### RECYCLED CONTENT

#### Recycled Content Validation

CERTIFYING PARTY: <b>Third Party</b>	ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
APPLICABLE FACILITIES: <b>Shelbyville, IN where the product is manufactured</b>	<b>2012-</b>	<b>2018-</b>	<b>UI Enviromental</b>
CERTIFICATE URL: <a href="https://spot.ulprospector.com/en/na/BuiltEnvironment/Detail/32846/656143/Earthwool-1000-Pipe-Insulation-with-ECOSE-Technology?st=1&amp;sl=48156413&amp;crit=SW5zdWxhdGlvbiA%2bEtuYXVmlEluc3VsYXRpb24%3d&amp;ss=2">https://spot.ulprospector.com/en/na/BuiltEnvironment/Detail/32846/656143/Earthwool-1000-Pipe-Insulation-with-ECOSE-Technology?st=1&amp;sl=48156413&amp;crit=SW5zdWxhdGlvbiA%2bEtuYXVmlEluc3VsYXRpb24%3d&amp;ss=2</a>	<b>08-10</b>	<b>07-20</b>	
CERTIFICATION AND COMPLIANCE NOTES:			

### LCA

#### EPD

CERTIFYING PARTY: <b>Third Party</b>	ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
APPLICABLE FACILITIES: <b>Shelbyville, IN where the product is manufactured</b>	<b>2014-</b>	<b>2019-</b>	<b>UL</b>
CERTIFICATE URL: <a href="https://spot.ulprospector.com/en/na/BuiltEnvironment/Detail/32846/656143/Earthwool-1000-Pipe-Insulation-with-ECOSE-Technology?st=1&amp;sl=45365577&amp;crit=SW5zdWxhdGlvbiA%2bEtuYXVmlEluc3VsYXRpb24%3d&amp;ss=2">https://spot.ulprospector.com/en/na/BuiltEnvironment/Detail/32846/656143/Earthwool-1000-Pipe-Insulation-with-ECOSE-Technology?st=1&amp;sl=45365577&amp;crit=SW5zdWxhdGlvbiA%2bEtuYXVmlEluc3VsYXRpb24%3d&amp;ss=2</a>	<b>09-12</b>	<b>09-12</b>	<b>Environmental</b>
CERTIFICATION AND COMPLIANCE NOTES:			

### OTHER

#### EUCEB biosoluble fiber exoneration

CERTIFYING PARTY: <b>Third Party</b>	ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
APPLICABLE FACILITIES: <b>Shelbyville, IN where the product is manufactured</b>	<b>2011-</b>		<a href="http://www.euceb.org/uploads/Modules/Plants/404.pdf">http://www.euceb.org/uploads/Modules/Plants/404.pdf</a>
CERTIFICATE URL: <a href="http://www.euceb.org/uploads/Modules/Plants/404.pdf">http://www.euceb.org/uploads/Modules/Plants/404.pdf</a>	<b>10-11</b>		
CERTIFICATION AND COMPLIANCE NOTES:			

CERTIFICATION AND COMPLIANCE NOTES:

CERTIFYING PARTY: **Self-declared**ISSUE DATE: **2017-09-**

EXPIRY DATE:

CERTIFIER OR LAB: **Declare LBC**APPLICABLE FACILITIES: **Shelbyville, IN where the product is manufactured****01****Program**CERTIFICATE URL: <https://access.living-future.org/earthwool%C2%AE-pipe-insulation-unfaced>CERTIFICATION AND COMPLIANCE NOTES: **Unjacketed product only**

## 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.*

### **BUTT STRIP TAPE**

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Tape is made of the same composition as the vapor retarder material noted in the HPD. This material is applied as a joint sealing material at the pipe insulation segments, 3 foot intervals along the length of pipe insulation installed.

## Section 5: General Notes

There is no anticipated exposures associated with the ingredients in the laminate. It is not believed that aluminum foil is a hazard and it is not believed that fire retardants bound within the adhesive of the thin vapor retarder have exposure potential.

## MANUFACTURER INFORMATION

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MANUFACTURER: **Knauf Insulation, Inc.**

ADDRESS: **One Knauf Drive**

**Shelbyville IN 46176, USA**

WEBSITE: **www.knaufinsulation.us**

CONTACT NAME: **Scott Miller**

TITLE: **Director Sustainability and Product Affairs**

PHONE: **317-512-1016**

EMAIL: **scott.miller@knaufinsulation.com**

## KEY

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**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

**CAN** Cancer

**DEV** Developmental toxicity

**END** Endocrine activity

**EYE** Eye irritation/corrosivity

**GEN** Gene mutation

**GLO** Global warming

**MAM** Mammalian/systemic/organ toxicity

**MUL** Multiple hazards

**NEU** Neurotoxicity

**OZO** Ozone depletion

**PBT** Persistent Bioaccumulative Toxic

**PHY** Physical Hazard (reactive)

**REP** Reproductive toxicity

**RES** Respiratory sensitization

**SKI** Skin sensitization/irritation/corrosivity

**LAN** Land Toxicity

**NF** Not found on Priority Hazard Lists

### GreenScreen (GS)

**BM-4** Benchmark 4 (prefer-safer chemical)

**BM-3** Benchmark 3 (use but still opportunity for improvement)

**BM-2** Benchmark 2 (use but search for safer substitutes)

**BM-1** Benchmark 1 (avoid - chemical of high concern)

**BM-U** Benchmark Unspecified (insufficient data to benchmark)

**LT-P1** List Translator Possible Benchmark 1

**LT-1** List Translator Likely Benchmark 1

**LT-UNK** List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

**NoGS** Unknown (no data on List Translator Lists)

### 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.*