

HPD UNIQUE IDENTIFIER: 25445

CLASSIFICATION: 07 21 00 Thermal Insulation

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	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
MANSON ALLEY K PIPE INSULATION - UNFACED [FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT LT-UNK CORN SYRUP LT-UNK UNDISCLOSED LT-UNK SILANE LT-UNK]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-UNK

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 and Option 2

Third Party Verified? <input type="radio"/> Yes <input checked="" type="radio"/> No	PREPARER: Self-Prepared VERIFIER: VERIFICATION #:	SCREENING DATE: 2021-07-16 PUBLISHED DATE: 2021-07-16 EXPIRY DATE: 2024-07-16
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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

MANSON ALLEY K PIPE INSULATION - UNFACED

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 ≤18 % BY WEIGHT

ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-16 8:48:06**

#: **80.0000 - 95.0000** 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: The is glass fiber validated by the EUCEB exoneration auditing process.

CORN SYRUP

ID: 8029-43-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-16 8:48:06**

#: **5.0000 - 15.0000** GS: **LT-UNK** 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:

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-16 8:48:06**

#: **1.0000 - 2.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Catalyst**

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

SUBSTANCE NOTES: Proprietary ingredient meeting the acceptance criteria for Red List Free

SILANE

ID: 7803-62-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-16 8:48:07**

#: **0.1000 - 0.5000** GS: **LT-UNK** 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: 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		
<p>CERTIFYING PARTY: Third Party</p> <p>APPLICABLE FACILITIES: Shelbyville, IN where the product is manufactured</p> <p>CERTIFICATE URL: https://builder.hpd-collaborative.org/v21/records/6018/certifications/3773/edit</p> <p>CERTIFICATION AND COMPLIANCE NOTES: Both faced and unfaced products are certified</p>		<p>ISSUE DATE: 2009-11-13</p>	<p>EXPIRY DATE:</p>	<p>CERTIFIER OR LAB: Greenguard UL</p>
FORMALDEHYDE EMISSIONS		Formaldehyde Free Validation		
<p>CERTIFYING PARTY: Third Party</p> <p>APPLICABLE FACILITIES: Shelbyville, Indiana where the product is manufactured</p> <p>CERTIFICATE URL: https://spot.ulprospector.com/en/na/BuiltEnvironment/Detail/32846/662416/Atmosphere-Duct-Wrap-with-ECOSE-Technology?st=1&sl=47678479&crit=SW5zdWxhdGlvbiA%2bIEtuYXVmlEluc3VsYXRpb24%3d&ss=2</p> <p>CERTIFICATION AND COMPLIANCE NOTES:</p>		<p>ISSUE DATE: 2011-07-20</p>	<p>EXPIRY DATE: 2017-11-04</p>	<p>CERTIFIER OR LAB: Greenguard UL</p>
RECYCLED CONTENT		Recycled Content Validation		
<p>CERTIFYING PARTY: Third Party</p> <p>APPLICABLE FACILITIES: Shelbyville, IN where the product is manufactured</p> <p>CERTIFICATE URL: https://spot.ulprospector.com/en/na/BuiltEnvironment/Detail/32846/656143/Earthwool-1000-Pipe-Insulation-with-ECOSE-Technology?st=1&sl=48156413&crit=SW5zdWxhdGlvbiA%2bIEtuYXVmlEluc3VsYXRpb24%3d&ss=2</p> <p>CERTIFICATION AND COMPLIANCE NOTES:</p>		<p>ISSUE DATE: 2012-08-10</p>	<p>EXPIRY DATE: 2018-07-20</p>	<p>CERTIFIER OR LAB: UI Enviromental</p>
LCA		EPD		
<p>CERTIFYING PARTY: Third Party</p> <p>APPLICABLE FACILITIES: Shelbyville, IN where the product is manufactured</p> <p>CERTIFICATE URL: https://spot.ulprospector.com/en/na/BuiltEnvironment/Detail/32846/656143/Earthwool-1000-Pipe-Insulation-with-ECOSE-Technology?st=1&sl=45365577&crit=SW5zdWxhdGlvbiA%2bIEtuYXVmlEluc3VsYXRpb24%3d&ss=2</p> <p>CERTIFICATION AND COMPLIANCE NOTES:</p>		<p>ISSUE DATE: 2014-09-12</p>	<p>EXPIRY DATE: 2019-09-12</p>	<p>CERTIFIER OR LAB: UL Environmental</p>
OTHER		EUCEB biosoluble fiber exoneration		
<p>CERTIFYING PARTY: Third Party</p> <p>APPLICABLE FACILITIES: Shelbyville, IN where the product is manufactured</p> <p>CERTIFICATE URL: http://www.euceb.org/uploads/Modules/Plants/404.pdf</p> <p>CERTIFICATION AND COMPLIANCE NOTES:</p>		<p>ISSUE DATE: 2011-10-11</p>	<p>EXPIRY DATE:</p>	<p>CERTIFIER OR LAB: http://www.euceb.org/uploads/Modules/Plants/404.pdf</p>
OTHER		Declare Red List Free		
<p>CERTIFYING PARTY: Self-declared</p> <p>APPLICABLE FACILITIES: Shelbyville, IN where the product is manufactured</p> <p>CERTIFICATE URL: https://access.living-future.org/earthwool%C2%AE-pipe-insulation-unfaced</p> <p>CERTIFICATION AND COMPLIANCE NOTES: Unpackaged product only Manson Alley K Pipe Insulation - unfaced hpdrepository.hpd-collaborative.org</p>		<p>ISSUE DATE: 2017-09-01</p>	<p>EXPIRY DATE:</p>	<p>CERTIFIER OR LAB: Declare LBC Program</p>

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

Manson Alley K pipe insulation is a molded, heavy-density, one-piece insulation made from inorganic glass fiber bonded with an organic binder.

MANUFACTURER INFORMATION

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**

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)	
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)	NoGS No GreenScreen.

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.