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Revision : 3.0  
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## SAFETY DATA SHEET

### Fiberglass with ECOSE® Technology

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

#### SECTION 1: Identification

##### Product identifier

**Product name** Fiberglass with ECOSE® Technology  
**Product number** MA\_DP\_101  
**Other means of identification** None.  
**Trade name** Akousti-Liner™, Akousti-Liner R™, Alley Wrap B™, Akousti-Shield™, Akousti-Board Black™, AK Board™, High Temperature Board, High Temperature Blanket, High Temperature Panel, High Temperature Batt, High Temperature HD Blanket, Alley K™ Pipe Insulation

##### Recommended use of the chemical and restrictions on use

**Identified Uses** Thermal and/or acoustic insulation for use in :  
technical applications, industrial applications and in building construction.  
**Uses advised against** None known.

##### Details of the supplier of the safety data sheet

**Supplier** Manson Insulation Products Ltd  
One Knauf Drive  
Shelbyville  
IN 46176-1496  
Tel: 800 825 4434  
  
www.imanson.com  
sds@knaufinsulation.com  
**Region** United States, Central & South America

##### Emergency telephone number

**Emergency phone number** 24hrs: Chemtrec Tel: 800 424 9300

**SECTION 2: Hazards identification**

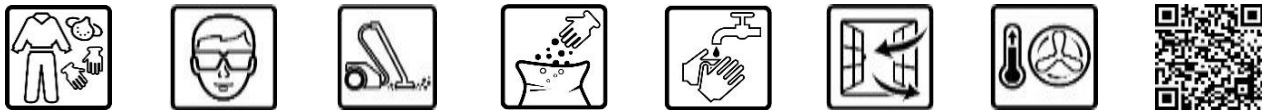
**Classification of the substance or mixture**

<b>OSHA Regulatory Status</b>	This product is regulated as a nuisance dust under OSHA criteria.
<b>Physical hazards</b>	Not classified
<b>Health hazards</b>	Not classified
<b>Environmental hazards</b>	Not classified

**Label elements**

<b>Hazard statements</b>	Not classified
<b>Contains</b>	None.
<b>Hazard pictograms</b>	None.
<b>Signal word</b>	None.
<b>Precautionary statements</b>	None.
<b>Supplemental label information</b>	None.

The following sentences and pictograms apply to this product:



<http://www.knaufinsulation.com/comfort-and-handling>

**Other hazards**

<b>Physical hazards</b>	None.
<b>Health hazards</b>	Mechanical irritation of the skin, eyes and upper respiratory system.
<b>Environmental hazards</b>	None.
<b>Most important symptoms/effects</b>	Contact with skin, eyes and upper respiratory system may cause mechanical irritation.

Biosoluble Fiberglass is classified as a nuisance dust by OSHA.

**Persistent Bioaccumulative Toxic** Not relevant

**\* Heat-up precautions** For product with binder: When heated for the first time above 400°F, release of binder components and binder decomposition products can occur which, in high concentrations, may irritate eyes and the respiratory system.

see section(s) : 8 & 10

**SECTION 3: Composition/information on ingredients**

**Mixtures**

<b>Biosoluble Fiberglass</b>	<b>(1)(2)</b>	<b>87 - 100%</b>
CAS number	—	
<b>Classification</b>	<b>Not classified</b>	
<b>Ingredient comments</b>	<p>(1) 650-016-00-2 - Man made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content greater than 18% by weight meeting the requirements of Note Q of regulation n° 1272/2008 and therefore not classified as carcinogenic.</p> <p>(2) All Knauf Insulation products covered by this SDS are independently certified by EUCEB to be manufactured using biosoluble glass formulations and thus exempt from labeling under NTP or California Prop 65 requirements.</p>	

**Thermo set, inert polymer bonding agent derived from plant starches**

0 - 13%

CAS number

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Classification

Not classified

Full text of R-phrases: see section 16

Specific chemical identity and/or exact percent concentration is withheld as trade secret.

**SECTION 4: First aid measures****Description of first aid measures**

<b>General information</b>	Show this Safety Data Sheet to the medical professional in attendance. If symptoms occur, follow first aid measures as appropriate.
<b>Note to physician :</b>	No specific measures.
<b>Inhalation</b>	Remove from exposure. Rinse the throat and clear dust from airways.
<b>Ingestion</b>	Most important symptoms/effects
<b>Skin contact</b>	If mechanical irritation occurs, remove contaminated clothing and wash skin gently with cold water and soap.
<b>Eye contact</b>	Rinse abundantly with water for at least 15 minutes.

**Most important symptoms and effects, both acute and delayed**

<b>General information</b>	Mechanical irritation of the skin, eyes and upper respiratory system. Biosoluble Fiberglass is classified as a nuisance dust by OSHA.
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**Indication of any immediate medical attention and special treatment needed**

<b>General information</b>	If any adverse reaction or discomfort continues from any of the above exposures, seek professional medical advice.
<b>Specific treatments</b>	No specific measures.

**SECTION 5: Fire-fighting measures****Extinguishing media**

<b>Suitable extinguishing media</b>	Water, foam, carbon dioxide (CO <sub>2</sub> ), and dry powder.
<b>Unsuitable extinguishing media</b>	None.

**Special hazards arising from the substance or mixture**

<b>General information</b>	Products do not pose a fire hazard in use; however, some packaging materials or facings may be combustible. Products of combustion from product and packaging - carbon dioxide, carbon monoxide and some trace gases such as ammonia, nitrogen oxides and volatile organic substances.
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**Advice for firefighters**

<b>General information</b>	In large fires in poorly ventilated areas involving packaging materials respiratory protection / breathing apparatus may be required.
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**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Minimise direct contact with skin in order to prevent mechanical itching. In dusty environments, use suitable respiratory protection such as 3M 8210, N95 or equivalent. Use glasses or goggles when working with fiberglass insulation above shoulder height or in dusty environments. Where possible, use natural ventilation during installation in order to minimise dust levels.
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After contact with the product, rinse skin in cold water to reduce potential effects of mechanical itching. Dispose of surplus product in accordance with local regulations.

Use personal protection recommended in Section 8 of the SDS.

**Environmental precautions**

Environmental precautions Not relevant

**Methods and material for containment and cleaning up**

Methods for cleaning up Vacuum cleaner or dampen down with water spray prior to brushing up.

Reference to other sections For personal protection, see section 8. For waste disposal, see section 13.

**SECTION 7: Handling and storage**

**Precautions for safe handling**

Usage precautions Assure proper respiratory protection if potential dust exposure exceeds occupational exposure limits.

**Conditions for safe storage, including any incompatibilities**

Storage precautions To ensure optimum product performance; when packaging is removed or opened; products should be stored inside or covered to protect them from ingress of rain water or snow. Storage arrangements should ensure stability of stacked products and use on a first in first out basis (FIFO) is recommended.

**Specific end use(s)**

Specific end use(s) Thermal and/or acoustic insulation for use in :technical applications, industrial applications and in building construction.

**SECTION 8: Exposure controls/personal protection**

**Control parameters**

**Occupational exposure limits Biosoluble Fiberglass**

Long-term exposure limit (8-hour TWA): ACGIH, (Notes: (A3)) 1 f/cc Glass wool fibers  
Long-term exposure limit (8-hour TWA): NIOSH 5 mg/m<sup>3</sup> Mineral wool fiber, total particulate  
Long-term exposure limit (8-hour TWA): OSHA 5 mg/m<sup>3</sup> Particulates not otherwise regulated (PNOR), respirable fraction  
Long-term exposure limit (8-hour TWA): OSHA 15 mg/m<sup>3</sup> Particulates not otherwise regulated (PNOR), total dust

ACGIH = American Conference of Governmental Industrial Hygienists.  
OSHA = Occupational Safety and Health Administration.  
NIOSH = The National Institute for Occupational Safety and Health.

Exposure limit values have been established by many authorities. Check on limit values that apply in your local situation

**Ingredient comments**

(A3) - Fibers longer than 5 µm; diameter less than 3 µm; aspect ratio greater than 5:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective) phase contrast illumination.

Biosoluble Fiberglass - see section(s) : 3.

**Exposure controls/personal protection**

Appropriate engineering controls Maintain sufficient mechanical or natural ventilation to assure fiber concentrations remain below PEL/TLV. Use local exhaust if necessary. Power equipment should be equipped with properly designed dust collection devices.

**Eye/face protection**

Use glasses or goggles when working with fiberglass insulation above shoulder height or in dusty environments.

<b>Other skin and body protection</b>	Minimize direct contact with skin in order to prevent mechanical itching.
<b>Hygiene measures</b>	After contact with the product, rinse skin in cold water to reduce potential effects of mechanical itching.
<b>Respiratory protection</b>	In dusty environments, use suitable respiratory protection.
<b>Environmental exposure controls</b>	Not relevant
<b>* Heat-up precautions</b>	For product with binder: When heated for the first time above 400°F, release of binder components and binder decomposition products can occur which, in high concentrations, may irritate eyes and the respiratory system. The duration of release is dependant upon the thickness of the insulation, binder content and the temperature applied. Provide adequate ventilation. In confined spaces or where ventilation is not possible, occupants should wear appropriate self-contained breathing apparatus.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Solid. Rolls. Panel. Loose fibre.
<b>Color</b>	Brown
<b>Odor</b>	Not relevant
<b>Odor threshold</b>	No data available
<b>pH</b>	Not relevant
<b>Melting point</b>	Not relevant
<b>Initial boiling point and range</b>	Not relevant
<b>Flash point</b>	Not relevant
<b>Evaporation rate</b>	Not relevant
<b>Flammability (solid, gas)</b>	Not relevant
<b>Upper/lower flammability or explosive limits</b>	Not relevant
<b>Vapor pressure</b>	Not relevant
<b>Vapour density</b>	Not relevant
<b>Relative density</b>	7 - 96 kg/m <sup>3</sup>
<b>Solubility</b>	Generally chemically inert and slightly soluble in water.
<b>Auto-ignition temperature</b>	Not relevant
<b>Decomposition temperature</b>	Not relevant
<b>Viscosity</b>	Not relevant
<b>Explosive properties</b>	Not relevant
<b>Oxidizing properties</b>	Not relevant

### Other information

<b>Devitrification temperature</b>	Not relevant
<b>Softening temperature</b>	Not relevant
<b>Nominal diameter of fibres</b>	3 - 8 µm
<b>Length weight geometric mean diameter less 2 standard errors</b>	< 6 µm
<b>Orientation of fibres</b>	Random

#### SECTION 10: Stability and reactivity

<b>Reactivity</b>	None.
<b>Chemical stability</b>	Binder will decompose above 200°C (400°F).
<b>Possibility of hazardous reactions</b>	None under normal use
<b>Conditions to avoid</b>	Heating above 200 °C (400°F).
<b>Incompatible materials</b>	Hydrofluoric acid will react with and dissolve glass.

#### **Hazardous decomposition products**

None under normal use

For product with binder: When heated for the first time above 400°F, release of binder components and binder decomposition products can occur which, in high concentrations, may irritate eyes and the respiratory system. The duration of release is dependant upon the thickness of the insulation, binder content and the temperature applied. Provide adequate ventilation. In confined spaces or where ventilation is not possible, occupants should wear appropriate self-contained breathing apparatus.

#### SECTION 11: Toxicological information

##### **Information on toxicological effects**

<b>Acute toxicity (oral) - LD50 oral</b>	No data were identified for the product as a whole. Data are for constituents: Biosoluble Fiberglass - Not applicable. Thermo set, inert polymer bonding agent derived from plant starches. - Not applicable.
<b>Acute toxicity (dermal) - LD50 dermal</b>	No data were identified for the product as a whole. Data are for constituents: Biosoluble Fiberglass - Not applicable. Thermo set, inert polymer bonding agent derived from plant starches. - Not applicable.
<b>Acute toxicity (inhalation) - LC50 Inhalation</b>	No data were identified for the product as a whole. Data are for constituents: Biosoluble Fiberglass - Not applicable. Thermo set, inert polymer bonding agent derived from plant starches. - Not applicable.
<b>Skin corrosion/irritation</b>	May cause mechanical irritation to skin
<b>Serious eye damage/irritation</b>	May cause mechanical irritation to eyes.
<b>Respiratory sensitization</b>	No data were identified for this product or its constituents.
<b>Skin sensitization</b>	No data were identified for this product or its constituents.
<b>Germ cell mutagenicity</b>	No data were identified for this product or its constituents.

<b>Carcinogenicity</b>	SWA / WES requirements exempt biopersistent fibres as defined by notes. Results from a biopersistence test in line with the notes has shown that fibres in this product longer than 20 µm have a weighted half-life less than 40 days and meet the "Nota Q" requirements, thus this product is not classified as a carcinogen. None of the components of this product Reproductive toxicity are listed as a carcinogen.
<b>Reproductive toxicity</b>	
Reproductive toxicity - Fertility	No data were identified for this product or its constituents.
Developmental toxicity	No data were identified for this product or its constituents.
<b>Specific target organ toxicity - single exposure</b>	No data were identified for this product or its constituents.
<b>Specific target organ toxicity - repeated exposure</b>	No data were identified for this product or its constituents.
<b>Aspiration hazard</b>	Not relevant
<b>Inhalation</b>	Mechanical irritation to upper respiratory tract.
<b>Ingestion</b>	Non-hazardous when ingested.
<b>Skin contact</b>	Mechanical irritation to skin.
<b>Eye contact</b>	Mechanical irritation to eyes.
<b>Most important symptoms/effects</b>	Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble Fiberglass is classified as a nuisance dust by OSHA.

## SECTION 12: Ecological information

### **General toxicity**

This product is not ecotoxic to air, water or soil, by composition.

### **Persistence and degradability**

Inert inorganic product with Thermo set, inert polymer bonding agent derived from plant starches; 0 - 18%

### **Bioaccumulative potential**

**Bioaccumulative potential** No bioaccumulation potential

**partition coefficient** Not relevant

**Mobility in soil** Not considered mobile. Less than 1% leachable organic carbon if landfilled.

### **Results of PBT and vPvB assessment**

Not relevant

### **Endocrine disrupting properties**

Not relevant

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

**General information** Dispose of in accordance with regulations and procedures in force in country of use or disposal.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Disposal methods** This product is not regulated under RCRA Hazardous Waste Regulations. May be disposed in landfill. If unsure, contact the local office of the USEPA, your local public health department or the local landfill regulators.

## SECTION 14: Transport information

**General information** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

**UN number** Not applicable

<b>UN proper shipping name</b>	Not applicable
<b>Transport hazard class(es)</b>	No transport warning sign required.
<b>Packing group</b>	Not applicable
<b>Environmental hazards</b>	
<b>Environmentally hazardous substance/marine pollutant</b>	None.
<b>Special precautions for user</b>	Not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15: Regulatory information**

**Regulatory status** This product is regulated as a nuisance dust under OSHA criteria.  
 In accordance with industry practice and voluntary commitments, Manson Insulation has decided to continue to provide its customers with the appropriate information for the purpose of assuring safe handling and use of fiberglass throughout the product life.

US Federal regulations  
 SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities : Not regulated.  
 CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA) : Not regulated.

**SECTION 16: Other information**

**General information** All products manufactured by Knauf Insulation are made of non-classified fibers and are certified by EUCEB.



Products meeting EUCEB certification requirements can be recognised by the EUCEB logo printed on the packaging.

**Further information can be obtained from**

[www.euceb.org](http://www.euceb.org)

[www.knaufnorthamerica.com](http://www.knaufnorthamerica.com)



**Revision comments** §1

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**SDS number** MA\_DP\_101

**Other information** In 2001, the International Agency for Research on Cancer (IARC) reclassified mineral wool fibres and fiberglass from Group 2B (possibly carcinogenic) to Group 3 «agent which cannot be classified as for their carcinogenicity to humans». (See Monograph Vol 81, <http://monographs.iarc.fr/>)

This Safety Data Sheet / Product Data Sheet does not constitute a workplace assessment.  
 Information contained in this document represents the state of our knowledge regarding this product as of the date of issue of the document. Attention of users is drawn to possible risks taken when the product is used for other applications than the ones it has been designed for.