



*Atco. Working Together.
Doing It Right.*

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SUBJECT: INQUIRY CONCERNING MATERIAL SAFETY DATA SHEET

To Whom It May Concern:

ATCO does not have a formal MSDS (Material Safety Data Sheet) on our flexible duct products. A MSDS is generally applicable to base chemicals and ATCO produces a finished composite which is individually carton packaged to the wholesaler. The finished product is handled only by the installer. Once installed, repeated handling is not done.

To my knowledge, there are no hazardous or toxic substances which would be harmful to persons in the normal handling of the product nor during the functional end use of conveying conditioned air.

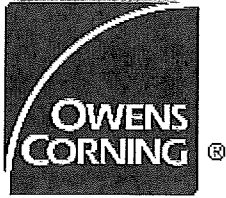
The ducts are listed by Underwriters Laboratories, UL-181 Safety Standard, under our file MH-9596 and 9844. UL 181 includes not only fire safety but erosion, mold growth and corrosion tests. The air tight inner core prevents the erosion of fiberglass particulates into the air stream during operational air flow. The materials will not support mold growth and will not rust or corrode in conditions of high humidity.

Enclosed is a MSDS for the fiberglass insulation to which workers might possibly be exposed during installation of our products.

If you have further questions, please call.

Sincerely,

Nick Lane
Marketing Analyst



SAFETY DATA SHEET

Creation Date 16-Dec-1997

Revision Date 28-Jul-2015

Version 3

1. IDENTIFICATION

Product Name Fiberglass Insulation Made With Purefiber® Technology - Unfaced Products

Synonyms Acoustical Backing Board, Attic Door Insulator, Attic Hatch Insulator, Base Cap Roof, R-13 Basement Finishing System™, Batts in Bags, Cathedral Batt Insulation, Cavity Wall, Ecotouch®, Extended Flange 25, Flame Spread 25 Hi-Perm Residential/Commercial Insulation, Insulation Batts, Manufactured Housing Insulation, Metal Framing Batts, Metal Framing Insulation, Noise Stop Board, Pink® Insulation, PROPINK® Fast Batt, PINKPLUS®, QuietZone® Acoustic Batt, Sonobatts®, ULTRAVANTAGE™ Comfort Touch™, Aislhogar, Aislacoustic™, Deco SKY™, RA Insulation, Flexible Duct Media Insulation, Ullilcore HP5

Product Code OCIS00026

Recommended Use Insulation

Manufacturer Address Owens Corning Insulating Systems, LLC
One Owens Corning Parkway
Toledo, Ohio 43659

Company Phone Number 1-800-GET-PINK or 1-800-438-7465
24 Hour Emergency Phone Number Chemtrec 1-800-424-9300
Emergency Telephone 1-419-248-5330 (after 5 pm ET and weekends)

E-mail address safetydatasheet@owenscorning.com
Company Website <http://owenscorning.com/>

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status

- This product is considered an article. 29 CFR 1910.1200(c) definition of an article is as follows: "Article" means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.
- This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

The product contains no substances which at their given concentration, are considered to be hazardous to health

Hazards not otherwise classified (HNOC) • Not applicable

Unknown acute toxicity No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture Components

Chemical Name	CAS No.	Weight-%	Trade Secret
Fiberglass wool	65997-17-3	85-100	*
EcoTouch Cured Binder	9999-99-9	0-15	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

Description of First Aid Measures

Eye contact

- DO NOT rub or scratch eyes.
- Rinse thoroughly with plenty of water, also under the eyelids
- If symptoms persist, call a physician
- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
- If eye irritation persists: Get medical advice/attention

Skin contact

- If skin irritation persists, call a physician
- Wash off immediately with plenty of water
- Wash off immediately with soap and cold water
- DO NOT use warm water because this will open up the pores of the skin, which will cause further penetration of the fibers
- Use a wash cloth to help remove fibers
- DO NOT rub or scratch affected area
- Remove contaminated clothing and shoes
- If fibers are seen penetrating from the skin, the fibers can be removed by applying and removing adhesive tape so that the fibers adhere to the tape and are pulled out of the skin
- Never use compressed air to remove fibers from skin

Inhalation

- Remove to fresh air
- If symptoms persist, call a physician

Ingestion

- Accidental ingestion of this material is unlikely
- Rinse mouth with water and drink water to remove fibers from the throat
- If this does occur watch person for several days to make sure intestinal blockage does not occur.
- If symptoms persist, call a physician

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media • None known

Specific hazards arising from the chemical • None in particular

Hazardous combustion products

- Carbon monoxide
- Carbon dioxide (CO₂)
- Ammonia
- Other undetermined compounds could be released in small quantities.

Explosion data

Sensitivity to Mechanical Impact • No information available

Sensitivity to Static Discharge • No information available

Protective equipment and precautions for firefighters • As in any fire, wear self-contained breathing apparatus (positive-pressure), MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions • Avoid contact with eyes and skin

Environmental precautions

- Prevent further leakage or spillage if safe to do so
- See Section 12 for additional ecological information

Methods and material for containment and cleaning up

Methods for containment

- This material will settle out of air.
- Prevent from spreading by covering, diking or other means.
- Cover powder spill with plastic sheet or tarp to minimize spreading

Methods for cleaning up

- Use personal protective equipment as required
- Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry
- Take up mechanically, placing in appropriate containers for disposal
- Avoid creating dust
- Clean contaminated surface thoroughly
- Use an industrial vacuum cleaner with a high efficiency filter to clean up dust and fiber contamination.
- Avoid dry sweeping.
- Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE

Precautions for safe handling

- Prevent and/or minimize dust formation.
- Do not breathe dust
- Wear appropriate personal protective equipment in case of direct contact with the product.

Conditions for safe storage, including any incompatibilities

Storage Conditions

- Keep product in packaging until use to minimize potential dust generation.
- Product should be kept dry and undercover.

Incompatible materials • None known based on information supplied

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
Fiberglass wool 65997-17-3	TWA: 1 fiber/cm ³ respirable fibers: length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination TWA: 5 mg/m ³ inhalable fraction	-	-

Engineering Controls Provide local exhaust and/or general ventilation to maintain exposure below regulatory and recommended limits.
Dust collection system must be used in transferring operations, cutting or other dust generating processes, such as using power tools.
Vacuum or wet clean-up methods should be used.

Individual protection measures, such as personal protective equipment

- Eye/face protection** • Wear safety glasses with side shields (or goggles)
- Skin and body protection** • Wear protective gloves
• Wear long-sleeved shirt and long pants.
- Respiratory protection** • When workers are facing airborne particulates/dust concentrations above the exposure limits, they must use an appropriate certified respirator.
• A properly fitted NIOSH approved disposable N 95 type dust respirator or better is recommended.

- General Hygiene Considerations**
- Wash hands before breaks and immediately after handling products.
 - Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Appearance	Fibrous
Odor	Organic
Color	Pink
pH	No information available
Melting point / freezing point	No information available
Boiling point / boiling range	No information available
Flash point	No information available Cleveland Open Cup
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available mm Hg @ 20°C
Vapor density	No information available
Water solubility	Insoluble in water
Partition coefficient	No information available
Autoignition temperature	No information available
Viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Vapor density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

- Reactivity** • No data available
- Chemical stability** • Stable under recommended storage conditions
- Possibility of Hazardous Reactions** • None under normal processing
- Conditions to avoid** • Extremes of temperature and direct sunlight
- Incompatible materials** • None known based on information supplied
- Hazardous Decomposition Products** • None known based on information supplied

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

- Product Information** • No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

- Sensitization** No information available.
- Germ cell mutagenicity** No information available.
- Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

IARC (International Agency for Research on Cancer)
Group 2A - Probably Carcinogenic to Humans
Group 3 - Not classifiable as a human carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

- Reproductive toxicity** No information available.
- STOT - single exposure** No information available.
- STOT - repeated exposure** No information available.
- Aspiration hazard** No information available.

12. ECOLOGICAL INFORMATION

- Persistence and degradability** • No information available
- Bioaccumulation** • No information available
- Other adverse effects** • No information available

13. DISPOSAL CONSIDERATIONS

- Disposal of wastes** • Disposal should be in accordance with applicable regional, national and local laws and regulations
- Contaminated packaging** • Do not reuse container

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Fiberglass wool 65997-17-3	X	X		X		X	X	X	X	X

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level

pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Creation Date	16-Dec-1997
Revision Date	28-Jul-2015
Revision Note	SDS sections updated 1

Disclaimer

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

End of Safety Data Sheet

SAFETY DATA SHEET



UV Inhibited Black Jacket Flex Duct, Manufactured Housing Flex Duct

Section 1. Identification

GHS product identifier : UV Inhibited Black Jacket Flex Duct, Manufactured Housing Flex Duct
Product code : Not available.
Other means of identification : Flexible Duct for the HVAC Industry
Product code : Not available.
Product type : Solid.

Identified uses

Flexible Duct for the residential and manufactured home marketplace for the HVAC industry.

Supplier's details : QuietFlex Manufacturing Company L.P.
 4518 Brittmoore Rd.
 Houston, Texas 77041
 Tel : (713) 849-2163
 Toll Free : 1-877-694-3669
 Fax : (713) 849-0753
 Web site: <http://www.quietflex.com>

Emergency telephone number (with hours of operation) : CANUTEC: +1-613-996-6666 or *666 (cellular)
 CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887
 24/7

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Hazards not otherwise classified (HNOC) : None known.



Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Flexible Duct for the HVAC Industry

CAS number/other identifiers

Ingredient name	CAS number	%
Antimony trioxide	1309-64-4	0.025 - 0.1

Antimony trioxide is an ingredient found in the adhesive used to CONSTRUCT the outer jacket of our Flexible Duct products. Antimony trioxide and other glue chemicals are APPLIED between TWO IMPERVIOUS PET films during the curing process. The final product is the outer jacket, a solid, which will not cause exposure to Antimony Trioxide. The adhesive ENCAPSULATED BETWEEN THE FILMS BECOMES A CURED SOLID AND PROVIDES NO PATH FOR OCCUPATIONAL EXPOSURE TO ANTIMONY TRIOXIDE.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash gently with soap and cool or room temperature water to remove dust and fibers. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Dusts and fibers form of this product may cause temporary mechanical irritation to the eyes.
- Inhalation** : Dusts and fibers form of this product may cause temporary mechanical irritation to the nose, throat and respiratory track.
- Skin contact** : Dusts and fibers form of this product may cause temporary mechanical irritation and redness to the skin.
- Ingestion** : Ingestion of this product is unlikely; however, ingestion may cause gastrointestinal irritation.

Over-exposure signs/symptoms

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Section 4. First aid measures

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No special protection is required.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : None known.

Specific hazards arising from the chemical : These products may be combusted by remaining in contact with flame. If flame source is stationary these products will shrink away and self-extinguish. If these products remain in contact with a flame they may continue to burn slowly, dropping flaming liquid which may spread the fire.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, organic acids, aldehydes and alcohols.

Special protective actions for fire-fighters : No special measures are required.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Pick up large pieces and dispose as listed in Section 13 of this SDS.

Methods and materials for containment and cleaning up

- Spill** : Pick up large pieces. Vacuum dusts and loose fibers. If sweeping is necessary, use dust suppressant such as water. Do not dry sweep dust. Never use compressed air for clean-up. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.
- Storage** : Storage should be in accordance with packaging directions, if any. Material should be stored in a dry place and kept in its original packaging until use.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep in original packaging until ready for use.

Section 8. Exposure controls/personal protection

Control parameters

- Occupational exposure limits** : The Occupational Safety and Health Administration (OSHA) have not adopted specific exposure standards for fiber glass. Fiber glass is treated as a nuisance dust and is regulated by OSHA as a particulate not otherwise regulated (total dust) shown in CFR 1910.1000 Table Z-3.

Ingredient name	Exposure limits
Antimony trioxide	ACGIH TLV (United States, 3/2015). TWA: 0.5 mg/m ³ , (as Sb) 8 hours. OSHA PEL (United States, 2/2013). TWA: 0.5 mg/m ³ , (as Sb) 8 hours. NIOSH REL (United States, 10/2013). TWA: 0.5 mg/m ³ , (as Sb) 10 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 0.5 mg/m ³ , (as Sb) 8 hours.

Antimony trioxide is an ingredient found in the adhesive used to CONSTRUCT the outer jacket of our Flexible Duct products. Antimony trioxide and other glue chemicals are APPLIED between TWO IMPERVIOUS PET films during the curing process. The final product is the outer jacket, a solid, which will not cause exposure to Antimony Trioxide. The adhesive ENCAPSULATED BETWEEN THE FILMS BECOMES A CURED SOLID AND PROVIDES NO PATH FOR OCCUPATIONAL EXPOSURE TO ANTIMONY TRIOXIDE.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne dust.
- Environmental exposure controls** : Pick up solid pieces and dispose of as listed in Section 13.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to possible insulation dusts.
- Skin protection**
- Hand protection** : Cotton or leather gloves should be worn to protect against mechanical abrasion. Use caution when handling the inner Core as the taped ends may come loose during handling exposing the wire used to construct the inner Core.

Section 8. Exposure controls/personal protection

- Body protection** : Wear a cap, a loose-fitting long sleeved shirt and long pants to protect skin from mechanical irritation. Exposed skin areas should be washed with soap and water after handling or working with fiberglass.
- Other skin protection** : Clothing should be washed separately from other cloths, and the washer should be rinsed thoroughly (run empty for a wash cycle). This will help reduce the chances of fiber glass being transferred to other clothing.
- Respiratory protection** : A respirator is not needed under normal and intended conditions of use.

Section 9. Physical and chemical properties

Appearance

- Physical state** : Solid. [Flexible duct.]
- Color** : Black.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point** : Not available.
- Boiling point** : Not applicable.
- Flash point** : Not applicable.
- Evaporation rate** : Not applicable.
- Flammability (solid, gas)** : Non-flammable.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not applicable.
- Vapor density** : Not applicable.
- Relative density** : Not applicable.
- Solubility** : Negligible in water.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Not applicable.
- Volatility** : Not available.
- VOC (w/w)** : 0 % (w/w)

Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable under normal conditions.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Keep away from heat, direct sunlight and flames.
- Incompatible materials** : None.

Section 10. Stability and reactivity

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

There is no data available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Antimony trioxide	Eyes - Mild irritant	Rabbit	-	100 mg	-

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Dust from this product is a mechanical irritant; which means that it may cause irritation or scratchiness of the throat and/or itching and redness of the eyes and skin.

Sensitization

There is no data available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
Glass, oxide, chemicals	-	3	-	A4	-	-
Antimony trioxide	-	2B	-	A2	-	-

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

- Eye contact** : Dusts and fibers form of this product may cause temporary mechanical irritation to the eyes.
- Inhalation** : Dusts and fibers form of this product may cause temporary mechanical irritation to the nose, throat and respiratory track.
- Skin contact** : Dusts and fibers form of this product may cause temporary mechanical irritation and redness to the skin.
- Ingestion** : Ingestion of this product is unlikely; however, ingestion may cause gastrointestinal irritation.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.

Section 11. Toxicological information

Ingestion : No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Antimony trioxide	Acute EC50 730 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 740 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 560 mg/L Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 423450 to 496000 µg/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 >530 mg/L Fresh water	Fish - Lepomis macrochirus - Young of the year	96 hours
	Chronic NOEC 200 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours

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Persistence and degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : There is no data available.



Section 12. Ecological information

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : This product is not expected to be a hazardous waste when it is disposed of according to the U.S. Environmental Protection Agency (EPA). Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Section 14. Transport information

	DOT	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

AERG : Not applicable.

Special precautions for user : These products are not classified as dangerous goods according to international transport regulations.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) PAIR: N,N'-ethylenebis(3,4,5,6-tetrabromophthalimide)
 TSCA 8(a) CDR Exempt/Partial exemption: Not determined
 United States inventory (TSCA 8b): All components are listed or exempted.
 Clean Water Act (CWA) 307: Antimony trioxide; Zinc distearate
 Clean Water Act (CWA) 311: Antimony trioxide

Antimony trioxide and N,N'-ethylenebis(3,4,5,6-tetrabromophthalimide) are ingredients found in the adhesive used to CONSTRUCT the outer jacket of our Flexible Duct products. Antimony trioxide and other glue chemicals are APPLIED between TWO IMPERVIOUS PET films during the curing process. The final product is the outer jacket, a solid, which will not cause occupational exposure or environmental release of these chemicals into the environment under normal conditions of use.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

**Section 15. Regulatory information**

Clean Air Act Section 602 : Not listed
Class I Substances

Clean Air Act Section 602 : Not listed
Class II Substances

DEA List I Chemicals : Not listed
(Precursor Chemicals)

DEA List I Chemicals : Not listed
(Precursor Chemicals)

SARA 302/304**Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Antimony trioxide	0.025 - 0.1	No.	No.	No.	Yes.	Yes.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Antimony trioxide	1309-64-4	0.025 - 0.1
Supplier notification	Antimony trioxide	1309-64-4	0.025 - 0.1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: Glass, oxide, chemicals

New York : The following components are listed: Antimony trioxide

New Jersey : The following components are listed: Antimony trioxide

Pennsylvania : The following components are listed: Antimony trioxide

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Antimony trioxide	Yes.	No.	No.	No.
Crystalline silica, quartz	Yes.	No.	No.	No.



Section 16. Other information

History

Date of issue mm/dd/yyyy : 07/15/2015

Version : 1

Prepared by : KMK Regulatory Services Inc.

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MANSON
INSULATION**SAFETY DATA SHEET****Glass Mineral Wool Insulation (Brown)**

According to WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR)

1. Identification**Product identifier**

Product name Glass Mineral Wool Insulation (Brown)

Product number MA_DP_101

Synonyms; Common Names 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 (*See section 2, 8, 10)

Revision date: 05/30/2018

Recommended use of the chemical and restrictions on use

Restriction on use 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
IN 46176-1 Shelbyville
800 825 4434
sds@knaufinsulation.com
www.imanson.com

Region: Canada

Emergency telephone number

Emergency telephone 24hrs: Chemtrec Tel: 800 424 9300

Glass Mineral Wool Insulation (Brown)

2. Hazard identification

Classification of the substance or mixture

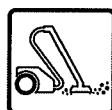
WHMIS Regulatory Status	Non-controlled product.
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified

Label elements

Hazard statements	NC Not Classified
Contains	None.
Hazard pictogram	None.
Signal word	None.
Precautionary statements	None.
Supplemental label information	None.

The following sentences and pictograms are printed on packaging:

The mechanical effect of fibers in contact with skin may cause temporary itching.



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

Other hazards

Physical Hazards	None.
Health Hazards	Mechanical irritation of the skin, eyes and upper respiratory system.
Environmental Hazards	None.
Main symptoms	Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble glass mineral wool is classified as a nuisance dust.
*Heat-Up Precautions	When heated to temperatures above 400°F for the first time, release of binder components and binder decomposition products can occur which, in high concentrations, may irritate eyes and the respiratory system. See section 8 & 10

Glass Mineral Wool Insulation (Brown)

3. Composition/information on ingredients

Mixtures

Biosoluble glass mineral wool	87 - 100%
CAS number: —	
Ingredient notes:(1)(2)	
Classification	
Not Classified	
Thermo set, inert polymer bonding agent derived from plant starches	0 - 13%
CAS number: —	
Classification	
Not Classified	

The full text for all hazard statements is displayed in Section 16.

Ingredient notes

- (1) Man made vitreous (silicate) fibers with random orientation with alkaline oxide and alkali earth oxide ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content greater than 18% by weight meeting the requirements of Note Q of regulation n° 1272/2008 and therefore not classified carcinogenicity.
- (2) All Knauf Insulation products covered by this SDS are independently certified by EUCEB to be manufactured using biosoluble glass formulations.

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

Glass Mineral Wool Insulation (Brown)

4. First-aid measures

Description of first aid measures

General information	Show this Safety Data Sheet to the medical professional in attendance. If symptoms occur, follow first aid measures as appropriate.
Notes to Physician:	No specific recommendations.
Inhalation	Remove from exposure. Rinse the throat and clear dust from airways.
Ingestion	Drink plenty of water if accidentally ingested.
Skin contact	If mechanical irritation occurs, remove contaminated clothing and wash skin gently with cold water and soap.
Eye contact	Rinse abundantly with water for at least 15 minutes.

Most important symptoms and effects, both acute and delayed

General information	Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble glass mineral wool is classified as a nuisance dust.
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Indication of any immediate medical attention and special treatment needed

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

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Water, foam, carbon dioxide (CO₂), and dry powder.

Specific hazards arising from the hazardous product

General information	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

General information	In large fires in poorly ventilated areas involving packaging materials respiratory protection / breathing apparatus may be required.
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Glass Mineral Wool Insulation (Brown)

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Minimize 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 mineral wool insulation above shoulder height or in dusty environments. Where possible, use natural ventilation during installation in order to minimize dust levels.

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

In dusty environments, use vacuum equipment where possible to minimize dust levels.

Reference to other sections

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

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.

Glass Mineral Wool Insulation (Brown)

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Biosoluble glass mineral wool

Long-term exposure limit (8-hour TWA): New Brunswick (Notes: (A3), ACGIH 2015) 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Saskatchewan 1 f/cc Glass wool fibers
 Short-term exposure limit (15-minute): Saskatchewan 3 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Nunavut 1 f/cc Glass wool fibers
 Short-term exposure limit (15-minute): Nunavut 3 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Newfoundland-Labrador (Note: (A3)) 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Manitoba (Note: (A3)) 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Nova Scotia (Note: (A3)) 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Prince Edward Island (Note: (A3)) 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Yukon 10 mg/m³ Mineral wool fibers, respirable
 Long-term exposure limit (8-hour TWA): NWT 1 f/cc Glass wool fibers
 Short-term exposure limit (15-minute): NWT 3 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Quebec 2 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Alberta 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): BC 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Ontario (Note: Ont) 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Alberta (Note: (3)) 10 mg/m³ Particulates not otherwise regulated (PNOR), total dust
 Long-term exposure limit (8-hour TWA): Alberta (Note: (3)) 3 mg/m³ Particulates not otherwise regulated (PNOR), respirable fraction
 Long-term exposure limit (8-hour TWA): Quebec 10 mg/m³ Particulates not otherwise regulated (PNOR), total dust

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.
 ACGIH Carcinogen List.
 Ont: Listed in Table 1 of Ontario Regulation 490/09.
 (3) - Based on irritation effects. Adjustment to compensate for unusual work schedules is not required.
 Biosoluble glass mineral wool - see section 3

Exposure controls

Appropriate engineering controls

Maintain sufficient mechanical or natural ventilation to assure fiber concentrations remain below occupational exposure limits. 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 mineral wool insulation above shoulder height or in dusty environments.

Other skin and body protection

Minimize direct contact with skin in order to prevent mechanical itching.

Hygiene measures

After contact with the product, rinse skin in cold water to reduce potential effects of mechanical itching.

Respiratory protection

In dusty environments, use suitable respiratory protection.

Thermal hazards

Not relevant.

Glass Mineral Wool Insulation (Brown)

* Heat-Up Precautions:

When heated to temperatures above 400°F for the first time, 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. Adequate ventilation should be provided. In confined spaces or where ventilation is not possible, occupants should wear appropriate self-contained breathing apparatus.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Solid. Rolls. Panel. Loose fiber.
Colour	Brown.
Odour	Not relevant.
Odour threshold	No data available.
pH	Not relevant.
Melting point	Not relevant.
Initial boiling point and range	Not relevant.
Flash point	Not relevant.
Evaporation rate	Not relevant.
Flammability (solid, gas)	Not relevant.
Upper/lower flammability or explosive limits	Not relevant.
Vapour pressure	Not relevant.
Vapour density	Not relevant.
Relative density	7 - 96 kg/m ³
Solubility(ies)	Generally chemically inert and insoluble in water.
Partition coefficient	Not relevant.
Auto-ignition temperature	Not relevant.
Decomposition Temperature	Not relevant.
Viscosity	Not relevant.
Explosive properties	Not relevant.
Oxidising properties	Not relevant.
Nominal diameter of fibers.	3 - 8 µm
Length weight geometric mean diameter less 2 standard errors	< 6 µm
Orientation of fibers	Random

10. Stability and reactivity

Reactivity	None.
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Glass Mineral Wool Insulation (Brown)

Stability	Binder will decompose above 400°F
Possibility of hazardous reactions	None.
Conditions to avoid	Heating above 400°F
Materials to avoid	Hydrofluoric acid will react with and dissolve glass.
Hazardous decomposition products	None in normal conditions of use. When heated to temperatures above 400°F for the first time, 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. Adequate ventilation should be provided. In confined spaces or where ventilation is not possible, occupants should wear appropriate self-contained breathing apparatus.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀)

No data were identified for the product as a whole. Data are for constituents:
 Biosoluble glass mineral wool - Not applicable.
 Thermo set, inert polymer bonding agent derived from plant starches - Not applicable.

Acute toxicity - dermal

Notes (dermal LD₅₀)

No data were identified for the product as a whole. Data are for constituents:
 Biosoluble glass mineral wool - Not applicable.
 Thermo set, inert polymer bonding agent derived from plant starches - Not applicable.

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

No data were identified for the product as a whole. Data are for constituents:
 Biosoluble glass mineral wool - Not applicable.
 Thermo set, inert polymer bonding agent derived from plant starches - Not applicable.

Skin corrosion/irritation

Skin corrosion/irritation

May cause mechanical irritation to skin.

Serious eye damage/irritation

Serious eye damage/irritation

May cause mechanical irritation to eyes.

Respiratory sensitization

Respiratory sensitization

No data were identified for this product or its constituents.

Skin sensitization

Skin sensitization

No data were identified for this product or its constituents.

Germ cell mutagenicity

Genotoxicity - in vitro

No data were identified for this product or its constituents.

Genotoxicity - in vivo

No data were identified for this product or its constituents.

Carcinogenicity

Carcinogenicity

Results from a biopersistence test by intratracheal instillation has shown that fibers in this product longer than 20 µm have a weighted half-life less than 40 days, thus this product is not classified as a carcinogen. None of the components of this product are listed by IARC as known or suspected carcinogens.

Glass Mineral Wool Insulation (Brown)

Reproductive toxicity - fertility	No data available for this product or its constituents.
Reproductive toxicity - development	No data available for this product or its constituents.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	No data were identified for this product or its constituents.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	No data were identified for this product or its constituents.
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant.
Inhalation	Mechanical irritation to upper respiratory tract.
Ingestion	Non-hazardous when ingested.
Skin contact	Mechanical irritation to skin.
Eye contact	Mechanical irritation to eyes.
Medical symptoms	Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble glass mineral wool is classified as a nuisance dust.

12. Ecological Information

Toxicity	This product is not ecotoxic to air, water or soil, by composition.
<u>Persistence and degradability</u>	
Persistence and degradability	Inert inorganic product with Thermo set, inert polymer bonding agent derived from plant starches; 0 - 13%
<u>Bioaccumulative potential</u>	
Bioaccumulative potential	Will not bioaccumulate.
Partition coefficient	Not relevant.
<u>Mobility in soil</u>	
Mobility	Not considered mobile. Less than 1% leachable organic carbon if landfilled.
<u>Other adverse effects</u>	
Other adverse effects	None known.

13. Disposal considerations

Waste treatment methods

General information	Dispose of in accordance with all applicable regulations. 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 your local public health department or the local landfill regulators.

14. Transport Information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, TDG).
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Glass Mineral Wool Insulation (Brown)

UN No. (International)	Not applicable.
<u>UN proper shipping name</u>	
Proper shipping name (International)	Not applicable.
<u>Transport hazard class(es)</u>	
Transport Labels (International)	No transport warning sign required.
<u>Packing group</u>	
Packing group (International)	Not applicable.
<u>Environmental hazards</u>	
Environmentally hazardous substance/marine pollutant	
No.	
<u>Special precautions for user</u>	
Not applicable.	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

Regulatory Status	Not classified according to WHMIS In accordance with industry practice, Manson Insulation has decided to continue to provide its customers with the appropriate information for the purpose of assuring safe handling and use of mineral wool throughout the product life.
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Inventories

Canada – DSL/NDSL

All the ingredients are listed or exempt.

CEPA - Priority Substances List	All the ingredients are listed or exempt.
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National Pollutant Release Inventory	All the ingredients are listed or exempt.
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16. Other information

Abbreviations and acronyms used in the safety data sheet	CAS: Chemical Abstracts Service. CEPA: Canadian Environmental Protection Act. DSL: Domestic Substances List. IARC: International Agency for Research on Cancer. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods. NDSL: Non-Domestic Substances List. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative. WHMIS: Workplace Hazardous Materials Information System.
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Glass Mineral Wool Insulation (Brown)

General information

All products manufactured by Manson 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 www.imanson.com



Revision comments §1 [CA, US]

Supersedes date 27/09/2016

Revision date 30/05/2018

Revision 2.1

SDS number 4616

Other information In 2001, the International Agency for Research on Cancer (IARC) reclassified glass mineral wool fibres 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/>)

MANSON
INSULATION**SAFETY DATA SHEET****Glass Mineral Wool Insulation (Yellow)**

According to WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR)

1. Identification**Product identifier**

Product name Glass Mineral Wool Insulation (Yellow)

Product number MA_DP_107

Synonyms; Common Names Alley-K™ Pipe Insulation*, Alley-K™ ASJ Pipe Insulation*, Alley-Wrap™, AK- 110™, Alley-Wrap™ FSK, AK Board™, AK Board™ FSK, FDM, AK Blanket™, AK Flex™, Unfaced Metal Building Insulation, Alley-Kat Air Duct Board™, High Temperature Blanket, High Temperature Batt, High Temperature HD Blanket, High Temperature Panel, High Temperature Board (*See section 2, 8, 10)

Revision date: 05/30/2018

Recommended use of the chemical and restrictions on use

Restriction on use 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
IN 46176-1 Shelbyville
800 825 4434
sds@knaufinsulation.com
www.imanson.com

Region: Canada

Emergency telephone number

Emergency telephone 24hrs: Chemtrec Tel: 800 424 9300

Glass Mineral Wool Insulation (Yellow)

2. Hazard identification

Classification of the substance or mixture

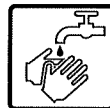
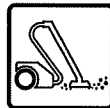
WHMIS Regulatory Status	Non-controlled product.
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified

Label elements

Hazard statements	NC Not Classified
Contains	None.
Hazard pictogram	None.
Signal word	None.
Precautionary statements	None.
Supplemental label information	None.

The following sentences and pictograms are printed on packaging:

The mechanical effect of fibers in contact with skin may cause temporary itching.



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

Other hazards

Physical Hazards	None.
Health Hazards	Mechanical irritation of the skin, eyes and upper respiratory system.
Environmental Hazards	None.
Main symptoms	Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble glass mineral wool is classified as a nuisance dust.
*Heat-Up Precautions	When heated to temperatures above 400°F for the first time, release of binder components and binder decomposition products can occur which, in high concentrations, may irritate eyes and the respiratory system. See section 8 & 10

Glass Mineral Wool Insulation (Yellow)

3. Composition/information on ingredients

Mixtures

Biosoluble glass mineral wool	83 - 97%
CAS number: —	
Ingredient notes:(1)(2)	
Classification	
Not Classified	
Thermo set, inert polymer based on cured phenol formaldehyde resin	3 - 17%
CAS number: —	
Classification	
Not Classified	
Formaldehyde	<0.1%
CAS number: 50-00-0	
Classification	
Acute Tox. 3 - H301	
Acute Tox. 3 - H311	
Acute Tox. 2 - H330	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Muta. 2 - H341	
Carc. 1B - H350	
STOT SE 3 - H335	

The full text for all hazard statements is displayed in Section 16.

Ingredient notes

(1) Man made vitreous (silicate) fibers with random orientation with alkaline oxide and alkali earth oxide ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content greater than 18% by weight meeting the requirements of Note Q of regulation n° 1272/2008 and therefore not classified carcinogenicity.

(2) All Knauf Insulation products covered by this SDS are independently certified by EUCEB to be manufactured using biosoluble glass formulations.

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

Glass Mineral Wool Insulation (Yellow)

4. First-aid measures

Description of first aid measures

General information	Show this Safety Data Sheet to the medical professional in attendance. If symptoms occur, follow first aid measures as appropriate.
Notes to Physician:	No specific recommendations.
Inhalation	Remove from exposure. Rinse the throat and clear dust from airways.
Ingestion	Drink plenty of water if accidentally ingested.
Skin contact	If mechanical irritation occurs, remove contaminated clothing and wash skin gently with cold water and soap.
Eye contact	Rinse abundantly with water for at least 15 minutes.

Most important symptoms and effects, both acute and delayed

General information	Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble glass mineral wool is classified as a nuisance dust.
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Indication of any immediate medical attention and special treatment needed

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

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Water, foam, carbon dioxide (CO₂), and dry powder.

Specific hazards arising from the hazardous product

General information	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

General information	In large fires in poorly ventilated areas involving packaging materials respiratory protection / breathing apparatus may be required.
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Glass Mineral Wool Insulation (Yellow)

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Minimize 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 mineral wool insulation above shoulder height or in dusty environments. Where possible, use natural ventilation during installation in order to minimize dust levels.

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

In dusty environments, use vacuum equipment where possible to minimize dust levels.

Reference to other sections

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

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.

Glass Mineral Wool Insulation (Yellow)

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Biosoluble glass mineral wool

Long-term exposure limit (8-hour TWA): New Brunswick (Notes: (A3), ACGIH 2015) 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Saskatchewan 1 f/cc Glass wool fibers
 Short-term exposure limit (15-minute): Saskatchewan 3 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Nunavut 1 f/cc Glass wool fibers
 Short-term exposure limit (15-minute): Nunavut 3 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Newfoundland-Labrador (Note: (A3)) 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Manitoba (Note: (A3)) 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Nova Scotia (Note: (A3)) 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Prince Edward Island (Note: (A3)) 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Yukon 10 mg/m³ Mineral wool fibers, respirable
 Long-term exposure limit (8-hour TWA): NWT 1 f/cc Glass wool fibers
 Short-term exposure limit (15-minute): NWT 3 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Quebec 2 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Alberta 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): BC 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Ontario (Note: Ont) 1 f/cc Glass wool fibers
 Long-term exposure limit (8-hour TWA): Alberta (Note: (3)) 10 mg/m³ Particulates not otherwise regulated (PNOR), total dust
 Long-term exposure limit (8-hour TWA): Alberta (Note: (3)) 3 mg/m³ Particulates not otherwise regulated (PNOR), respirable fraction
 Long-term exposure limit (8-hour TWA): Quebec 10 mg/m³ Particulates not otherwise regulated (PNOR), total dust

Formaldehyde

Ceiling exposure limit: Quebec, (Notes: C2) 2 ppm 3 mg/m³
 Long-term exposure limit (8-hour TWA): Alberta, (Notes: A2) 0.75 ppm 0.9 mg/m³
 Ceiling exposure limit: Alberta, (Notes: A2) 1 ppm 1.3 mg/m³
 Long-term exposure limit (8-hour TWA): BC, (Notes: A2, 1, S) 0.3 ppm
 Ceiling exposure limit: BC, (Notes: A2, 1, S) 1 ppm
 Short-term exposure limit (15-minute): Ontario (Note: Ont) 1 ppm
 Ceiling exposure limit: Ontario (Note: Ont) 1.5 ppm
 Ceiling exposure limit: Newfoundland-Labrador, (Notes: DSens, RSens, A2) 0.3 ppm
 Ceiling exposure limit: Manitoba, (Notes: DSens, RSens, A2) 0.3 ppm
 Ceiling exposure limit: Nova Scotia, (Notes: DSens, RSens, A2) 0.3 ppm
 Ceiling exposure limit: NWT, (Notes: S, Schedule R) 0.3 ppm
 Ceiling exposure limit: Prince Edward Island, (Notes: DSens, RSens, A2) 0.3 ppm
 Ceiling exposure limit: Yukon, (Notes: SEN, R) 2 ppm 3 mg/m³
 Ceiling exposure limit: Saskatchewan, (Notes: SEN, T20) 0.3 ppm
 Ceiling exposure limit: Nunavut, (Notes: S, Schedule R) 0.3 ppm
 Long-term exposure limit (8-hour TWA): New Brunswick 0.5 ppm
 Short-term exposure limit (15-minute): New Brunswick 1.5 ppm

Glass Mineral Wool Insulation (Yellow)

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.

Ont: Listed in Table 1 of Ontario Regulation 490/09.

(3) - Based on irritation effects. Adjustment to compensate for unusual work schedules is not required.

ACGIH Carcinogen List.

Biosoluble glass mineral wool - see section 3.

C2 = Carcinogenic effect suspended in humans.

A2 = Suspected Human Carcinogen.

1a = Substance may be readily absorbed through intact skin.

1 = Carcinogenic to humans (IARC).

S = Sensitizer.

DSens = Dermal sensitizer.

RSens = Respiratory sensitizer.

Schedule R = Substance is also listed in Schedule R "Designated Chemical and Biological Substances".

SEN = Sensitizer.

R = Adverse reproductive effect.

T20 = substance is also in Table 20 and subject to Sections 306 and 311 of The Occupational Health and Safety Regulations, 1996.

Exposure controls

Appropriate engineering controls

Maintain sufficient mechanical or natural ventilation to assure fiber concentrations remain below occupational exposure limits. 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 mineral wool insulation above shoulder height or in dusty environments.

Other skin and body protection

Minimize direct contact with skin in order to prevent mechanical itching.

Hygiene measures

After contact with the product, rinse skin in cold water to reduce potential effects of mechanical itching.

Respiratory protection

In dusty environments, use suitable respiratory protection.

Environmental exposure controls

Not relevant.

* Heat-Up Precautions:

When heated to temperatures above 400°F for the first time, 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. Adequate ventilation should be provided. In confined spaces or where ventilation is not possible, occupants should wear appropriate self-contained breathing apparatus.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance

Solid.
Rolls. Panel. Loose fiber.

Colour

Yellow.

Odour

Not relevant.

Odour threshold

No data available

Glass Mineral Wool Insulation (Yellow)

pH	Not relevant.
Melting point	Not relevant.
Initial boiling point and range	Not relevant.
Flash point	Not relevant.
Evaporation rate	Not relevant.
Flammability (solid, gas)	Not relevant.
Upper/lower flammability or explosive limits	Not relevant.
Vapour pressure	Not relevant.
Vapour density	Not relevant.
Relative density	7 - 96 kg/m ³
Solubility(ies)	Generally chemically inert and insoluble in water.
Partition coefficient	Not relevant.
Auto-ignition temperature	Not relevant.
Decomposition Temperature	Not relevant.
Viscosity	Not relevant.
Explosive properties	Not relevant.
Oxidising properties	Not relevant.
Nominal diameter of fibers.	3 - 8 µm
Length weight geometric mean diameter less 2 standard errors	< 6 µm
Orientation of fibers	Random

10. Stability and reactivity

Reactivity	None.
Stability	Binder will decompose above 400°F
Possibility of hazardous reactions	None.
Conditions to avoid	Heating above 400°F
Materials to avoid	Hydrofluoric acid will react with and dissolve glass.
Hazardous decomposition products	None in normal conditions of use. When heated to temperatures above 400°F for the first time, 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.

11. Toxicological information

Glass Mineral Wool Insulation (Yellow)

Acute toxicity - oral

Notes (oral LD₅₀)

No data were identified for the product as a whole. Data are for constituents:
 Biosoluble glass mineral wool - Not applicable.
 Thermo set, inert polymer based on cured phenol formaldehyde resins - Not applicable.

Acute toxicity - dermal

Notes (dermal LD₅₀)

No data were identified for the product as a whole. Data are for constituents:
 Biosoluble glass mineral wool - Not applicable.
 Thermo set, inert polymer based on cured phenol formaldehyde resins - Not applicable.

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

No data were identified for the product as a whole. Data are for constituents:
 Biosoluble glass mineral wool - Not applicable.
 Thermo set, inert polymer based on cured phenol formaldehyde resins - Not applicable.

Skin corrosion/irritation

Skin corrosion/irritation

May cause mechanical irritation to skin.

Serious eye damage/irritation

Serious eye damage/irritation

May cause mechanical irritation to eyes.

Respiratory sensitization

Respiratory sensitization

No data were identified for this product or its constituents.

Skin sensitization

Skin sensitization

No data were identified for this product or its constituents.

Germ cell mutagenicity

Genotoxicity - in vitro

No data were identified for this product or its constituents.

Genotoxicity - in vivo

No data were identified for this product or its constituents.

Carcinogenicity

Carcinogenicity

Results from a biopersistence test by intratracheal instillation has shown that fibers in this product longer than 20 µm have a weighted half-life less than 40 days, thus this product is not classified as a carcinogen. None of the components of this product are listed by IARC as known or suspected carcinogens.

Reproductive toxicity

Reproductive toxicity - fertility

No data available for this product or its constituents.

Reproductive toxicity - development

No data available for this product or its constituents.

Specific target organ toxicity - single exposure

STOT - single exposure

No data were identified for this product or its constituents.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

No data were identified for this product or its constituents.

Aspiration hazard

Aspiration hazard

Not relevant.

Inhalation

Mechanical irritation to upper respiratory tract.

Ingestion

Non-hazardous when ingested.

Skin contact

Mechanical irritation to skin

Glass Mineral Wool Insulation (Yellow)

Eye contact	Mechanical irritation to eyes.
Medical symptoms	Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble glass mineral wool is classified as a nuisance dust.

12. Ecological Information

Toxicity	This product is not ecotoxic to air, water or soil, by composition.
<u>Persistence and degradability</u>	
Persistence and degradability	Inert inorganic product with Thermo set, inert polymer based on cured phenol formaldehyde resins; 3 - 17%
<u>Bioaccumulative potential</u>	
Bioaccumulative potential	Will not bioaccumulate.
Partition coefficient	Not relevant.
<u>Mobility in soil</u>	
Mobility	Not considered mobile. Less than 1% leachable organic carbon if landfilled.
<u>Other adverse effects</u>	
Other adverse effects	None known.

13. Disposal considerations

<u>Waste treatment methods</u>	
General information	Dispose of in accordance with all applicable regulations. 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 your local public health department or the local landfill regulators.

14. Transport information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, TDG).
<u>UN number</u>	
UN No. (International)	Not applicable.
<u>UN proper shipping name</u>	
Proper shipping name (International)	Not applicable.
<u>Transport hazard class(es)</u>	
Transport Labels (International)	No transport warning sign required.
<u>Packing group</u>	
Packing group (International)	Not applicable.
<u>Environmental hazards</u>	
Environmentally hazardous substance/marine pollutant	No.

Glass Mineral Wool Insulation (Yellow)

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

Regulatory Status Not classified according to WHMIS
In accordance with industry practice, Manson Insulation has decided to continue to provide its customers with the appropriate information for the purpose of assuring safe handling and use of mineral wool throughout the product life.

Inventories

Canada – DSL/NDSL

All the ingredients are listed or exempt.

CEPA - Priority Substances List All the ingredients are listed or exempt.

National Pollutant Release Inventory All the ingredients are listed or exempt.

16. Other information

Abbreviations and acronyms used in the safety data sheet

CAS: Chemical Abstracts Service.
 CEPA: Canadian Environmental Protection Act.
 DSL: Domestic Substances List.
 IARC: International Agency for Research on Cancer.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 NDSL: Non-Domestic Substances List.
 PBT: Persistent, Bioaccumulative and Toxic substance.
 vPvB: Very Persistent and Very Bioaccumulative.
 WHMIS: Workplace Hazardous Materials Information System.

General information All products manufactured by Manson 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 www.imanson.com



Revision comments	§1
Supersedes date	04/10/2016
Revision date	30/05/2018
Revision	2.1
SDS number	MA_DP_107

Glass Mineral Wool Insulation (Yellow)

Hazard statements in full

H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H350 May cause cancer.

Other information

In 2001, the International Agency for Research on Cancer (IARC) reclassified glass mineral wool fibres 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/>)

Fiberglass Duct Board, Liner, and Wrap HVAC Insulation

Version 3.0

Revision Date 01/27/2021

Print Date 01/27/2021

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : Diffuser Board, Duct Liner PM, Fitting Fab Board,
Linacoustic® R-300, Linatex®, Micro-Aire®, Micro-Aire® LP,
MICROLITE® Standard, MICROLITE® Vinyl, Spiracoustic
Plus®, Spiral SG™, SUPERDUCT RC®

Manufacturer or supplier's details

Company : Johns Manville
Address : P.O. Box 5108
Denver, CO USA 80127
Telephone : +1-303-978-2000
Emergency telephone : 24-Hour Number: +1-800-424-9300 (CHEMTREC)
number

Company : Johns Manville Canada Inc.
Address : 5301 42 Avenue
Innisfail, AB Canada T4G 1A2
Telephone : +1-303-978-2000
Emergency telephone : 24-Hour Number: +1-800-424-9300 (CHEMTREC)
number

Recommended use of the chemical and restrictions on use

Recommended use : thermal and/or acoustic insulation
Restrictions on use : For professional users only.
Prepared by : productsafety@jm.com

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with 29 CFR 1910.1200 (OSHA HCS 2012) and the Hazardous Products Regulations (WHMIS 2015)**

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Glass fiber product

Hazardous components

Non-hazardous according to 29 CFR 1910.1200 (OSHA HCS 2012) and the Hazardous Products Regulations (WHMIS 2015), when used as intended.

Relevant ingredients

Chemical name	CAS-No.	Concentration (%)
non-biopersistent (biosoluble) glass fibers	Not Assigned	>= 70 - <= 90 %
cured urea-extended phenol-formaldehyde resin	Not Assigned	>= 10 - <= 20 %

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SECTION 4. FIRST AID MEASURES

General advice	:	Handle in accordance with good industrial hygiene and safety practice.
If inhaled	:	Remove person to fresh air. If signs/symptoms continue, get medical attention.
In case of skin contact	:	In case of contact, flush skin with plenty of water for at least 5 minutes while removing contaminated clothing and shoes. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If easy to do, remove contact lens, if worn. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	:	Rinse mouth with water to remove dust or fibers and drink plenty of water to help reduce irritation. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	Temporary mechanical abrasion (itching) of skin, eyes and respiratory tract may occur upon exposure to fibers or dust during handling of this product and cannot occur unless there is direct contact. Abrasion effects should subside after cessation of exposure.
Protection of first-aiders	:	If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Carbon dioxide (CO2) Foam Dry powder Water
Unsuitable extinguishing media	:	none
Specific hazards during firefighting	:	Under the influence of high temperatures, e.g. during a fire in the warehouse, decomposition products like carbon oxide may be released due to the low content of organic compounds.
Hazardous combustion products	:	carbon oxides nitrogen oxides
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid dust formation.
Environmental precautions	:	Should not be released into the environment.

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Methods and materials for containment and cleaning up : Clean up promptly by scoop or vacuum.
 Pick up and arrange disposal without creating dust.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.
 Minimize dust generation and accumulation.
 Do not breathe vapours/dust.
 Do not get in eyes or mouth or on skin.
 For personal protection see section 8.

Conditions for safe storage : Keep in a dry, cool place.

Materials to avoid : No materials to be especially mentioned.

Further information on storage stability : Stable at normal ambient temperature and pressure.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Synthetic vitreous fibers, glass wool fibers	Not Assigned	TWA (fibers)	1 fibers/cm ³	ACGIH
Particulates (insoluble or poorly soluble) Not Otherwise Specified (PNOS)	Not Assigned	TWA (respirable particles)	3 mg/m ³	ACGIH
		TWA (inhalable particles)	10 mg/m ³	ACGIH
Particulates Not Otherwise Regulated (PNOR)	Not Assigned	TWA (respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m ³	OSHA
		TWA (respirable fraction)	5 mg/m ³	OSHA
Fibrous glass dust	Not Assigned	TWA	3 fibers/cm ³	NIOSH REL
		TWA (total)	5 mg/m ³	NIOSH REL

As a member of the North American Insulation Manufacturers Association (NAIMA), JM subscribes to the NAIMA Product Stewardship Program (NPSP). Under the NPSP, JM recommends that exposures be limited to the voluntary concentration of 1 f/cc TWA. The NPSP also includes work practice and respiratory protection recommendations. For more information, see NAIMA's Health and Safety Reference Library (website: <http://insulationinstitute.org/tools-resources/resource-library/health-safety/>) to find the Product Stewardship Program Pocket Folder (N052) and other Fact Sheets.

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Engineering measures	:	Use a local and/or general ventilation system.
Personal protective equipment		
Respiratory protection	:	No personal respiratory protective equipment normally required. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Hand protection		
Material	:	Protective gloves
Remarks	:	For prolonged or repeated contact use protective gloves.
Eye protection	:	Safety glasses with side-shields
Skin and body protection	:	Wear protective clothing, such as long-sleeved shirts and pants. Remove and wash contaminated clothing before re-use.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	roll, board
Colour	:	yellow, black, silver, white
Odour	:	slight
Odour Threshold	:	No data available
pH	:	Not applicable
	:	Not applicable
	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not applicable
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Solubility(ies)	:	
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-	:	Not applicable

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octanol/water	
Auto-ignition temperature	: No data available
Thermal decomposition	: Not applicable
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: None known.
Conditions to avoid	: Trace amounts of formaldehyde may be released when in contact with moisture, including humidity. This release is most prevalent in conditions of high heat and humidity.
Incompatible materials	: hydrofluoric acid
Hazardous decomposition products	: To avoid thermal decomposition, do not overheat.

SECTION 11. TOXICOLOGICAL INFORMATION

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA (29 CFR 1910 Subpart Z, Toxic and Hazardous Substances).
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Further information**Product:**

Remarks: Temporary mechanical abrasion (itching) of skin, eyes and respiratory tract may occur upon exposure to fibers or dust during handling of this product and cannot occur unless there is direct contact. Abrasion effects should subside after cessation of exposure. Trace amounts of formaldehyde may be released when in contact with moisture, including humidity. This release is most prevalent in conditions of high heat and humidity.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
No data available

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Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects**Product:**

- Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
- Additional ecological information : Due to the properties of the product, a hazard to the environment may not be expected.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- Waste from residues : Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION**International transport regulations**

Land transport

USDOT: Not classified as a dangerous good under transport regulations

TDG: Not classified as a dangerous good under transport regulations

Sea transport

IMDG: Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO: Not classified as a dangerous good under transport regulations

SECTION 15. REGULATORY INFORMATION**TSCA list**

TSCA - 5(a) Significant New Use Rule List of Chemicals : Not relevant

U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpart D) : Not relevant

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- SARA 311/312 Hazards** : No SARA Hazards
- SARA 302** : This material does not contain any components with a section 302 EHS TPQ.
- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489).

California Prop. 65

⚠️WARNING: This product can expose you to chemicals including formaldehyde, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

- TSCA : On the inventory, or in compliance with the inventory
- DSL : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION**Further information**

Revision Date : 01/27/2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: July 31, 2018

Revision: July 31, 2018

1 Identification

- **Product identifier**
- **Trade name: ToughGard R Duct Liner**
- **Other product identifiers:**
 - Product Literature Code: 30-33-055
 - SDS Code: CT-10168
- **Recommended use and restriction on use**
- **Recommended use:** Acoustical and thermal insulation.
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
 - CertainTeed Corporation
 - 20 Moores Road
 - Malvern, PA 19355
 - 610-893-6000
 - www.certainteed.com
 - CertainTeed-EHS@saint-gobain.com
- **Emergency telephone number:**
 - ChemTel Inc.
 - (800)255-3924 (North America)
 - +1 (813)248-0585 (International)
 - 1-300-954-583 (Australia)
 - 0-800-591-6042 (Brazil)
 - 400-120-0751 (China)
 - 000-800-100-4086 (India)
 - 01-800-099-0731 (Mexico)

2 Hazard(s) identification

- **Classification of the substance or mixture**

The product is not classified as hazardous according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** This product does not have a classification according to the GHS regulation.
- **Hazard pictograms:** Not regulated.
- **Signal word:** Not regulated.
- **Hazard statements:** Not regulated.
- **Precautionary statements:** Not regulated.
- **Other hazards** There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Components:**

Biosoluble glass mineral wool	87-100%
-------------------------------	---------

- **Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

(Cont'd. on page 2)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: July 31, 2018

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Trade name: ToughGard R Duct Liner

(Cont'd. of page 1)

4 First-aid measures

- **Description of first aid measures**

- **After inhalation:**

Unlikely route of exposure.

Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

Brush off loose particles from skin.

Wash with soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

- **After eye contact:**

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

Unlikely route of exposure.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- **Most important symptoms and effects, both acute and delayed:** No relevant information available.

- **Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray.

- **For safety reasons unsuitable extinguishing agents:** None.

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

Formation of toxic gases is possible during heating or in case of fire.

- **Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Avoid formation of dust.

Do not breathe dust.

- **Environmental precautions** No special measures required.

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

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

(Cont'd. on page 3)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: July 31, 2018

Revision: July 31, 2018

Trade name: ToughGard R Duct Liner

(Cont'd. of page 2)

7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
 - Prevent formation of dust.
 - Handle with care.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**
 - Storage area should be dry and well-ventilated.
- **Information about storage in one common storage facility:** No relevant information available.
- **Specific end use(s)** No relevant information available.

8 Exposure controls/personal protection· **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

Biosoluble glass mineral wool

PEL (USA)	15 mg/m ³ TWA
REL (USA)	3 fibers/cm ³ TWA (fibers with diameter ≤ 3.5 µm & length ≥ 10 µm.)
REL (USA)	5 mg/m ³ TWA (total fibrous glass)

- **Exposure controls**
- **General protective and hygienic measures:**
 - Use good industrial hygiene practices in handling this material. Availability of eye wash fountains are recommended. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco.
- **Engineering controls:**
 - Use general ventilation and use local exhaust where possible, in confined or enclosed spaces. Avoid spread of fiber glass dust.
- **Breathing equipment:**
 - A properly fitted NIOSH (American National Institute For Occupational Safety And Health) approved disposable N 95 series dust respirator such as type 3M 8210 (formerly 8710) or 3M 8271 (formerly 9900) respirator should be used under any dust environment or during a process that generates dusts. Use respiratory protection in accordance with the respiratory protection program of your company, local regulations and OSHA regulations under 29CFR 1910.134
- **Protection of hands:**
 - Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules.
- **Eye protection:**
 - Safety glasses with side shields should be worn at a minimum. In dusty environments chemical goggles should be worn.
- **Body protection:**
 - Work clothing sufficient to prevent all skin contact should be worn, such as coveralls, long sleeves and cap.
- **Limitation and supervision of exposure into the environment**
 - Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to

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waterways.

- **Risk management measures** No relevant information available.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· Appearance:

Form:

Solid

Color:

According to product specification

· Odor:

Nearly odorless

· Odor threshold:

Not determined.

· pH-value:

Not applicable.

· Melting point/Melting range:

Not determined.

· Boiling point/Boiling range:

Not determined.

· Flash point:

Not applicable.

· Flammability (solid, gaseous):

Product is not flammable.

· Auto-ignition temperature:

Not determined.

· Decomposition temperature:

Not determined.

· Danger of explosion:

Product does not present an explosion hazard.

· Explosion limits

Lower:

Not determined.

Upper:

Not determined.

· Oxidizing properties:

Non-oxidizing.

· Vapor pressure:

Not applicable.

· Density:

Relative density:

Not determined.

Vapor density:

Not applicable.

Evaporation rate:

Not applicable.

· Solubility in / Miscibility with

Water:

Insoluble.

· Partition coefficient (n-octanol/water):

Not determined.

· Viscosity

Dynamic:

Not applicable.

Kinematic:

Not applicable.

· Other information

No relevant information available.

10 Stability and reactivity

- **Reactivity:** The product is non-reactive under normal conditions of use, storage and transport.
- **Chemical stability:** Stable under normal temperatures and pressures.

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- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
Reacts with strong acids.
Reacts with strong oxidizing agents.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** Strong acids
- **Hazardous decomposition products**
Under fire conditions only:
Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

- **Probable route(s) of exposure:**
Eye contact.
Skin contact.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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- **vPvB:** Not applicable.
- **Other adverse effects** No relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Smaller quantities can be disposed of with household waste.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|--|-----------------|
| · UN-Number | |
| · DOT, ADR, IMDG, IATA | Not regulated. |
| · UN proper shipping name | |
| · DOT, ADR, IMDG, IATA | Not regulated. |
| · Transport hazard class(es) | |
| · DOT, ADR, IMDG, IATA | |
| · Class | Not regulated. |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | Not regulated. |
| · Environmental hazards | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **United States (USA)**
 - **SARA**
- | | |
|--|-------------------------------------|
| · Section 302 (extremely hazardous substances): | |
| | None of the ingredients are listed. |
| · Section 355 (extremely hazardous substances): | |

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None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed or exempt.

· Proposition 65 (California)**· Chemicals known to cause cancer:**

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL) (Substances not listed.):

All ingredients are listed or exempt.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Revision: July 10, 2018

Disclaimer / Statement of Liability:

Reasonable care has been taken in the preparation of this information, but the supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Safety Data Sheet before handling product.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety & Health Administration

· Sources

Website, European Chemicals Agency (echa.europa.eu)

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Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

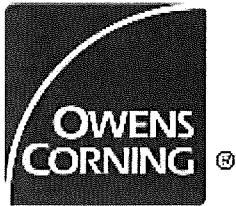
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SAFE USE INSTRUCTION SHEET

Creation Date 16-Dec-1997

Revision Date 19-Mar-2021

Version 4

0. General Information

This Safe Use Instruction Sheet is the document provided by Owens Corning to communicate recommended safe handling and use instructions for manufactured articles neither regulated by OSHA Hazard Communication Standard, 29 CFR 1910.1200 nor by the Canada Hazardous Products Regulation SOR/2015-17 (WHMIS 2015)

1. IDENTIFICATION

Product Name	Fiberglass Insulation Made With PureFiber® Technology Unfaced Products
Synonyms	Acoustical Backing Board, Attic Door Insulator, Attic Hatch Insulator, Basement Blanket, R-13 Basement Finishing System™, Batts in Bags, Cathedral Batt Insulation, Cavity Wall, Certified R, EcoTouch®, Extended Flange 25, Flame Spread 25 Hi-Perm Residential/Commercial Insulation, Insulation Batts & Rolls, Insulation for Flexible Duct, Manufactured Housing Insulation, MBI Plus, Metal Building Insulation, Metal Building Utility Blanket, Metal Framing Batts, Metal Framing Insulation, NOISE Stop Blanket, PINK® Insulation, PROPINK® Fast Batt®, QuietZone® Acoustic Batt, Sonobatts®, Aishogar, Aislacoustic™, Deco SKY™, RA Series Insulation, UtiliCore® HP5, PINK Next Gen™ Fiberglas™ Insulation, PINK Next Gen™ Fiberglas™ Insulation
Product code	OCIS00026
Recommended Use	Insulation
Manufacturer Address	Owens Corning Insulating Systems, LLC One Owens Corning Parkway Toledo, Ohio 43659
Company Phone Number	1-800-GET-PINK or 1-800-438-7465
E-mail address	safetydatasheet@owenscorning.com
Company Website	http://owenscorning.com/

2. HAZARDS IDENTIFICATION

Regulatory Status This product is considered an article. 29 CFR 1910.1200(c) definition of an article is as follows: "Article" means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees

Manufactured articles which meet the definition of the Canadian Hazardous Products Act (any article that is formed to a specific shape or design during manufacture, the intended use of which when in that form is dependent in whole or in part on its shape or design, and that, when being installed, if the intended use of the article requires it to be installed, and under normal conditions of use, will not release or otherwise cause an individual to be exposed to a hazardous product) are not regulated by the Canadian Hazardous Products Regulation SOR/2015-17

Other Information May cause temporary skin and mucous membranes itching due to the mechanical abrasion

effect of fibers

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is considered as an article. No hazardous components are included in this product.

4. FIRST AID MEASURES

Description of First Aid Measures

- | | |
|---------------------|---|
| Eye contact | <ul style="list-style-type: none">• DO NOT rub or scratch eyes• Rinse thoroughly with plenty of water, also under the eyelids• If symptoms persist, call a physician• Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes• If eye irritation persists: Get medical advice/attention |
| Skin contact | <ul style="list-style-type: none">• If skin irritation persists, call a physician• Wash off immediately with plenty of water• Wash off immediately with soap and plenty of cold water• DO NOT use warm water because this will open up the pores of the skin, which will cause further penetration of fibers and dust• Use a wash cloth to help remove fibers and dust• DO NOT rub or scratch affected area• Remove contaminated clothing and shoes• If fibers are seen penetrating from the skin, the fibers can be removed by applying and removing adhesive tape so that the fibers adhere to the tape and are pulled out of the skin• Never use compressed air to remove fibers from skin |
| Inhalation | <ul style="list-style-type: none">• Remove to fresh air• If symptoms persist, call a physician |
| Ingestion | <ul style="list-style-type: none">• Accidental ingestion of this product is unlikely• Rinse mouth with water and drink water to remove fibers from the throat• If this does occur watch person for several days to make sure intestinal blockage does not occur• If symptoms persist, call a physician |

5. FIRE-FIGHTING MEASURES

- | | |
|--|---|
| Suitable extinguishing media | <ul style="list-style-type: none">• Use extinguishing measures that are appropriate to local circumstances and the surrounding environment |
| Protective equipment and precautions for firefighters | <ul style="list-style-type: none">• As in any fire, wear self-contained breathing apparatus (positive-pressure), MSHA/NIOSH (approved or equivalent) and full protective gear |

6. ACCIDENTAL RELEASE MEASURES

- | | |
|--------------------------------|--|
| Personal precautions | <ul style="list-style-type: none">• Avoid contact with eyes and skin |
| Methods for cleaning up | <ul style="list-style-type: none">• Use personal protective equipment as required• Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry• Take up mechanically, placing in appropriate containers for disposal• Avoid creating dust• Clean contaminated surface thoroughly• Use an industrial vacuum cleaner with a high efficiency filter to clean up dust and fiber contamination |

- Avoid dry sweeping
- Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE

- Precautions for safe handling**
- Prevent and/or minimize dust formation
 - Do not breathe dust
 - Wear appropriate personal protective equipment in case of direct contact with the product
- Storage Conditions**
- Keep product in packaging until use to minimize potential dust generation
 - Product should be kept dry and undercover
- Incompatible materials**
- None known based on information supplied

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
Fiberglass wool 65997-17-3	TWA: 1 fiber/cm ³ respirable fibers: length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination TWA: 5 mg/m ³ inhalable particulate matter	-	-

- Engineering Controls**
- Provide local exhaust and/or general ventilation to maintain exposure below regulatory and recommended limits
 Dust collection system must be used in transferring operations, cutting or other dust generating processes, such as using power tools
 Vacuum or wet clean-up methods should be used

Individual protection measures, such as personal protective equipment

- Eye/face protection**
- Wear safety glasses with side shields (or goggles)
- Skin and body protection**
- Wear protective gloves
 - Wear long-sleeved shirt and long pants
- Respiratory protection**
- When workers are facing airborne particulates/dust concentrations above the exposure limits, they must use an appropriate certified respirator
 - A properly fitted NIOSH approved disposable N 95 type dust respirator or better is recommended

- General Hygiene Considerations**
- Wash hands before breaks and immediately after handling products
 - Remove and wash contaminated clothing before re-use

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** Solid
- Appearance** Fibrous
- Odor** Organic
- Color** Pink
- Water solubility** Insoluble in water

10. STABILITY AND REACTIVITY

Possibility of Hazardous Reactions • None under normal processing conditions

Hazardous Decomposition Products • None known based on information supplied

11. TOXICOLOGICAL INFORMATION

Product Information	Fiberglass wool may cause temporary skin and mucous membranes itching due to mechanical abrasion effect of fibers
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen
IARC (International Agency for Research on Cancer)	In October 2001, the International Agency for Research on Cancer (IARC) classified fiber glass wool as Group 3, "not classifiable as to its carcinogenicity to humans". The 2001 decision was based on human studies and animal research that have not shown an association between inhalation exposure to dust from fiber glass wool and the development of respiratory disease
NTP (National Toxicology Program)	In June 2011, The National Toxicology Program (NTP) removed biosoluble glass wool fibers from its list of possible carcinogens used for home and building insulation

12. ECOLOGICAL INFORMATION

This product is not expected to be hazardous for the environment

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with applicable regional, national and local laws and regulations

14. TRANSPORT INFORMATION

This material is not subject to regulation as a hazardous material for shipping

15. REGULATORY INFORMATION

International Inventories	This product is classified as an article. Articles are exempted from registration or listing under chemicals inventories like TSCA (USA), DSL/NDL (CAN), REACH (EU), ENCS (JP), IECSC (CN), KECL (KR), PICCS (PH), AICS (AUS)
California Proposition 65	This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

Creation Date	16-Dec-1997
Revision Date	19-Mar-2021
Revision Note	Sections updated 1, 3,

Disclaimer

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use

End of Safe Use Instruction Sheet