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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™, Aishogor, Aislacustic™, Deco SKY™, RA Insulation, Flexible Duct Media Insulation, Utilicore 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 | <ul style="list-style-type: none">• 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

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|-------------------------------|--|
| 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