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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

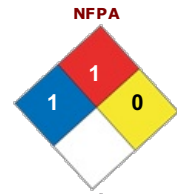


Personal Protective Equipment		WHMIS Pictograms	
		Not Controlled	
Protective Gloves	Safety Glasses		

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: Fiber Glass Insulation Made With Purefiber® Technology Unfaced Products
MSDS Manufacturer Number: 13614-NAM
Synonyms: Acoustical Backing Board, Attic Door Insulator, Attic Hatch Insulator, Attic Scuttle Insulator, Batts in Bags, Blended Blowing Wool, Cathedral Batt Insulation, Cavity Wall, Cold Storage Wall, Curtain Wall 225, ECOTOUCH™, FDM ARP100, FDM ARP125, Flexible Marine, Flexible Type 75 AF-FDM, HV-24, HV-26, H2V-1000, H2V-2000, Insulation Batts, Manufactured Housing Insulation, Masonry Wall Insulation, Metal Building (all types), Metal Framing Batts, Metal Framing Insulation, Multi-purpose Insulation, Noise Stop Board, Pink® Insulation, Pink Pak, QuietZone® Acoustic Batt, RA Series, Shaft Wall, Sill Sealer, Sonobatts®, Sound Attenuation Batts, Standard Blend, Super Pink R Blowing Wool, ThermoGlas®, Marine Board, ULTRAVANTAGE™ Comfort Touch™, Unfaced Duct Wrap, Warm-N-Dri®, Aislhogar, Aislacustic™, MBI, MBI Certified R, Attic Blanket®, Flexible Duct Media FIBERGLAS® Insulation with PureFiber Technology®, Metal Building FIBERGLAS® Insulation with PureFiber Technology®

Product Use/Restriction: Insulation
Manufacturer Name: Owens Corning Insulating Systems, LLC
Address: One Owens Corning Parkway
Toledo, OH 43659
Customer Service Phone Number: 1-800-GET-PINK or 1-800-438-7465
Health Issues Information: 1-800-GET-PINK or 1-800-438-7465
Technical Product Information: 1-800-GET-PINK or 1-800-438-7465
Emergency Phone Number: 1-419-248-5330 (after 5pm ET and weekends)
CHEMTREC: 800-424-9300 (24 hours everyday).
Canutec: (613) 996-6666 (Canada 24 hours everyday).
Website: www.owenscorning.com
MSDS Creation Date: December 16, 1997
MSDS Revision Date: January 14, 2013



SECTION 3 : HAZARDS IDENTIFICATION

Applies to Product

Emergency Overview: Exposure to dust may be irritating to eyes, nose, and throat.

Route of Exposure: Eye contact
Skin contact
Inhalation.

Potential Health Effects:

- Eye:** May cause irritation.
- Skin:** May cause skin irritation.
- Inhalation:** May cause irritation of respiratory tract.
- Ingestion:** Ingestion of this product is unlikely.

Chronic Health Effects: Long term use or contact with this product has not been shown to cause chronic health effects.

Carcinogenicity: This material is not considered a carcinogen.

Potential Environmental Effects: There is no known ecological information for this material.

Aggravation of Pre-Existing Conditions: Chronic respiratory or skin conditions may temporarily worsen from exposure to this product.

OSHA Regulatory Status: This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
Fiber Glass (Wool)	65997-17-3	85 - 100 by weight	266-046-0
Cured Binder	N/A	0 - 15 by weight	
Non-Hazardous Statement:	The remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product.		

SECTION 4 : FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Do not rub or scratch eyes. If eye irritation persists, consult a specialist.
Skin Contact:	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 areas. Remove contaminated clothing. If irritation persists get medical attention. Never use compressed air to remove fibers from the skin. 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.
Inhalation:	Move to fresh air. If symptoms persist, call a physician.
Ingestion:	Accidental ingestion of this material is unlikely. If this does occur, watch person for several days to make sure intestinal blockage does not occur. Rinse mouth with water and drink water to remove fibers from the throat. If symptoms persist, call a physician.
Note to Physicians:	Treat symptomatically.

SECTION 5 : FIRE FIGHTING MEASURES

Flammable Properties:	Non Flammable.
Flash Point:	None.
Flash Point Method:	Not applicable.
Lower Flammable/Explosive Limit:	Not applicable.
Upper Flammable/Explosive Limit:	Not applicable.
Extinguishing Media:	dry chemical foam. carbon dioxide (CO2). water fog
Protective Equipment:	Wear self-contained breathing apparatus (SCBA) and full fire fighting protective gear.
Unusual Fire Hazards:	Hydrogen chloride to be released from the PVC barrier and vinyl facings during a fire.
Hazardous Combustion Byproducts:	Carbon monoxide. Carbon dioxide. Ammonia. Other undetermined compounds could be released in small quantities.
Universal Fire And Explosion Hazards:	Not available.
NFPA Ratings:	
NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Avoid contact with skin and eyes.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so.
Methods for containment:	This material will settle out of the air. Prevent from spreading by covering, diking or other means.
Methods for cleanup:	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.
Other Precautions:	Does not apply.

SECTION 7 : HANDLING and STORAGE

Handling: Avoid dust formation.
Do not breathe dust.
Wear personal protective equipment.

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

Hygiene Practices: Wash hands before breaks and immediately after handling the product.
Remove and wash contaminated clothing before re-use.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

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 machining or other dust generating processes, such as using power tools.
Vacuum or wet clean-up methods should be used.

Eye/Face Protection: Safety glasses with side-shields.

Skin Protection Description: Protective gloves.
Long sleeved shirt and long pants.

Respiratory Protection: When workers are facing airborne particulate/dust concentrations above the exposure limit they must use appropriate certified respirators.
A properly fitted NIOSH approved disposable N 95 type dust respirator or better is recommended.

Other Protective: When the temperature of the surface being insulated exceeds 250°F (121°C), including initial startup, the binder in these products may undergo various degrees of decomposition depending on the temperature in the application.
The need for respiratory protection will vary according to the airborne concentration of the decomposition products released and accumulated in the area.
Wear the appropriate respiratory protection according to the conditions and exposure levels in the area.

General Hygiene Considerations: Wash hands before breaks and immediately after handling the product.
Remove and wash contaminated clothing before re-use.

EXPOSURE GUIDELINES

Ingredient	Guideline OSHA	Guideline ACGIH	Ontario Canada	Mexico	
Fiber Glass (Wool)	None	TLV-TWA: 1 f/cc (Respirable)	TWAEV-TWA: 0.05 mg/m3 or 1 f/cc STEL: 0.6 mg/m3	TWA: 0.15 mg/m3	

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Fibrous.

Odor: organic.

Boiling Point: No Data

Melting Point: No Data

Specific Gravity: No Data

Solubility: Insoluble. in water.

Vapor Density: No Data

Vapor Pressure: No Data

Evaporation Rate: No Data

pH: No Data

Viscosity: Not applicable.

Flash Point: None.

Flash Point Method: Not applicable.

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability: Stable under normal conditions.

Hazardous Polymerization: Hazardous polymerization does not occur.

Conditions to Avoid: None expected

Incompatible Materials: No materials to be especially mentioned.

Special Decomposition Products: See Section 5 of MSDS for hazardous decomposition products during a fire.

SECTION 11 : TOXICOLOGICAL INFORMATION

Applies to Product :

Acute Toxicity: Dusts may cause mechanical irritation to eyes and skin. Ingestion may cause transient irritation of throat. Inhalation may cause coughing, nose and throat irritation, and sneezing.

Carcinogens:							
	ACGIH	NIOSH	OSHA	IARC	NTP		MEXICO
Fiber Glass (Wool)	A3 Animal Carcinogen	No Data	No Data	Group 3 - Not Classifiable as to its Carcinogenicity to Humans.	Biosoluble glass wool is not considered to be carcinogenic.		A3 Animal Carcinogen
Cured Binder	No Data	No Data	No Data	No Data	No Data		No Data

Applies to Product :

Sensitization: No information available.
 Mutagenicity: No information available.
 Reproductive Toxicity: No information available.
 Teratogenicity: No information available.
 Neurological Effects: No information available.

Fiber Glass (Wool) :

Chronic Effects: 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. 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.

SECTION 12 : ECOLOGICAL INFORMATION

Applies to Product :

Ecotoxicity: This material is not expected to cause harm to animals, plants or fish.
 Bioaccumulation: Not available.
 Biodegradation: Not available.
 Mobility In Environmental Media: Not available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Applies to Product :

Waste Disposal: Dispose of in accordance with Local, State, Federal and Provincial regulations.
 RCRA Number: No EPA Waste Numbers are applicable for this product's components.

SECTION 14 : TRANSPORT INFORMATION

Notes : This product is not regulated for shipping or transportation.

SECTION 15 : REGULATORY INFORMATION

Inventory Status

	Japan ENCS	EINECS Number	China	South Korea KECL	Australia AICS
Fiber Glass (Wool)	Not listed	266-046-0	Listed	KE-17630	Listed
Cured Binder	Not listed		Not listed	Not listed	Not listed

	Canada DSL	TSCA Inventory Status			
Fiber Glass (Wool)	Listed	Listed			
Cured Binder	Not listed	Not listed			

Applies to Product :

Canada WHMIS: Not controlled.
 SARA: This product does not contain any chemicals which are subject to the reporting requirements of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III (40CFR, Part 372).
 Section 311/312 Hazard Categories: Acute Health Hazard: Yes
 Chronic Health Hazard: No
 Risk of ignition: No
 Sudden Release of Pressure Hazard: No
 Reactive Hazard: No
 Clean Air Act: This product does not contain any Hazardous Air Pollutants (HAPs).

Fiber Glass (Wool):

EC Number: 266-046-0

State Right To Know

	RI	MN	IL	PA	MA
Fiber Glass (Wool)	Listed	Listed	Listed	Listed	Listed
Cured Binder	No Data	No Data	No Data	No Data	No Data

	NJ				
Fiber Glass (Wool)	No Data				
Cured Binder	No Data				

SECTION 16 : ADDITIONAL INFORMATION

MSDS Creation Date: December 16, 1997

MSDS Revision Date: January 14, 2013

MSDS Revision Notes: Section 11 Updated with 2011 NTP Evaluation

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.

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