



- Unfaced Products

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	Ingredient Percent
Cured Binder	N/A	0 - 15 by weight
Fiber Glass (Wool)	65997-17-3	85 - 100 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 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 slight irritation.
Skin:	May cause slight skin irritation.
Inhalation:	May cause irritation of respiratory tract.
Ingestion:	Ingestion of this product is unlikely.
Chronic Health Effects:	There is no known chronic health effect connected with long-term use or contact with this product.
Carcinogenicity:	This product contains a component which is listed by IARC, OSHA or NTP. See Section 11 for additional information.
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 material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**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.

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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 Flammability: 1  
 NFPA Health: 2  
 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.  
 Material 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.

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**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

	<b>Guideline OSHA</b>	<b>Guideline ACGIH</b>	<b>Ontario Canada</b>	<b>Mexico</b>	
Fiber Glass (Wool)	PEL-TWA: 1 f/cc (Respirable)	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.

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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, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. High exposures may cause difficulty breathing, congestion, and chest tightness.

<b>Carcinogens:</b>						
	<b>ACGIH</b>	<b>NIOSH</b>	<b>OSHA</b>	<b>IARC</b>	<b>NTP</b>	<b>MEXICO</b>
<b>Cured Binder</b>	No Data	No Data	No Data	No Data	No Data	No Data
<b>Fiber Glass (Wool)</b>	A3 Animal Carcinogen	No Data	OSHA: Designated carcinogen	Group 3 - Not Classifiable as to its Carcinogenicity to Humans.	RAC - Reasonably anticipated to be a human carcinogen.	A3 Animal Carcinogen

**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.

**Cured Binder :**

Ingestion: Inhalation. - Rat LD50: 7 gm/kg - [Autonomic Nervous System - other (direct) parasympathomimetic Behavioral - muscle weakness Lungs, Thorax, or Respiration - respiratory depression]  
 Inhalation. - Mouse LD50: 7 gm/kg - [Autonomic Nervous System - other (direct) parasympathomimetic Behavioral - muscle weakness Lungs, Thorax, or Respiration - respiratory depression](RTECS)

**Fiber Glass (Wool) :**

Chronic Effects: 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. This classification replaces the IARC finding in 1987 of a Group B designation "possibly carcinogenic to humans".

In May 1997, the American Conference of Governmental Industrial Hygienists (ACGIH) adopted an A3 carcinogen classification for glass wool fibers. The ACGIH A3 classification considers glass wool to be carcinogenic in experimental animals at relatively high doses, by routes of administration, at sites, or by mechanisms that it does not consider relevant to worker exposure. It also reviewed the available epidemiological studies and concluded that they do not confirm an increased risk of cancer in exposed humans. Overall, the ACGIH found that the available medical/scientific evidence suggests that glass wool is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.

In 1994, the National Toxicology Program (NTP) classified glass wool (respirable size) as "reasonably anticipated to be a human carcinogen". This classification was primarily based upon the 1987 IARC classification. NTP is currently considering reclassifying this material.

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**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.  
 Contaminated Packaging: Empty containers should be taken for local recycling, recovery or waste disposal.  
 RCRA Number: No EPA Waste Numbers are applicable for this product's components.  
 RCRA Characteristics: This material is not expected to be a characteristic hazardous waste under RCRA.

**SECTION 14 - TRANSPORT INFORMATION**

DOT Shipping Name: Not Regulated.  
 IATA Shipping Name: Not Regulated.  
 Canadian Shipping Name: Not Regulated.  
 IMDG Shipping Name : Not Regulated.  
 ADR Shipping Name : Not Regulated.  
 RID Shipping Name : Not Regulated.  
 ICAO Shipping Name: Not Regulated.  
 MEX Shipping Name : Not Regulated.

**SECTION 15 - REGULATORY INFORMATION**

**Inventory Status**

	Japan ENCS	EINECS Number	PICCS	China	South Korea KECL
Cured Binder	Not listed			Listed	KE-35185
Fiber Glass (Wool)	Not listed	266-046-0	Listed	Listed	KE-17630

	Austrailia AICS	Canada DSL	TSCA Inventory Status		
Cured Binder	Listed	Listed	Listed		
Fiber Glass (Wool)	Listed	Listed	Listed		

**Applies to product :**

Canada Reg. Status: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.  
 Canada WHMIS: Not controlled.  
 CA PROP 65: The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):  
 WARNING! This product contains a chemical known to the State of California to cause cancer.

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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: Yes  
 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).

**State Right To Know**

	<b>RI</b>	<b>MN</b>	<b>IL</b>	<b>PA</b>	<b>MA</b>
Cured Binder	No Data	No Data	No Data	No Data	No Data
Fiber Glass (Wool)	Listed	Listed	Listed	Listed	Listed
	<b>NJ</b>				
Cured Binder	No Data				
Fiber Glass (Wool)	No Data				

**SECTION 16 - ADDITIONAL INFORMATION**

HMIS Fire Hazard: 1  
 HMIS Health Hazard: 2\*  
 HMIS Reactivity: 0  
 HMIS Personal Protection: X  
 MSDS Creation Date: 12/16/1997  
 MSDS Revision Date: 02/28/2008  
 MSDS Revision Notes: Added new synonyms FDM ARP100 and FDM ARP125  
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