

# MATERIAL SAFETY DATA SHEET

Date 12/28/07

## SECTION I - MANUFACTURER'S INFORMATION

NAME: **Unitherm Insulation** PRODUCT: BASE MATERIAL:  
ADDRESS: **711 Jones St.** Fiberglass textile; Yarn,  
Lewisville, TX 75057 Fabric, Braiding, Rope, Mat  
TELEPHONE: **972-436-1401** COATING: None

Textile glass fibers are continuous filament strands woven, knitted, braided or felted into a textile product. It may be used plain, heat treated, dyed, or coated.

## SECTION II - OSHA HAZARDOUS SUBSTANCES

<u>COMPONENT</u>	<u>Wt. %</u>	<u>CAS NO.</u>	<u>ACGIH TLV</u> (8-hr TWA)	<u>OSHA PEL</u> (8-hr TWA)
<u>Fiberglass</u>	98 – 100%	65997-17-3		
Nonrespirable	>98%		5 mg/m <sup>3</sup> , Inhalable fraction	15 mg/m <sup>3</sup> , total dust
Respirable	<1%		3 mg/m <sup>3</sup> , PNOC	5 mg/m <sup>3</sup> , respirable
Respirable particulate with fiber like dimensions (glass shards)	<0.002%		NE	1 fiber/cc; aspect ratio >5:1
<u>Size</u>	0 – 2%	mixture	NE	NE
<u>Coating</u>	None			

TWA – time weighted average; PNOR – particles not otherwise classified  
NE – none established

## SECTION III - PHYSICAL DATA

Boiling Point: N/A Specific Gravity (water=1): 2.60  
Melting Point: N/A Vapor Density: N/A  
Percent Volatile: N/A Vapor Pressure: N/A  
Solubility in Water: Insoluble Evaporation Rate: N/A  
APPEARANCE AND ODOR: Base fabric – White; tan when heat treated; no odor

## SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: N/A METHOD USED: N/A  
AUTO IGNITION TEMP: N/A FLAMMABILITY LIMITS: N/A  
EXTINGUISHING MEDIA: Water, chemical foam, dry chemical, CO<sub>2</sub>, and/or smother.  
SPECIAL FIRE FIGHTING INSTRUCTIONS: N/A  
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

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## SECTION V - HEALTH HAZARD DATA

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**PRIMARY ROUTES OF EXPOSURE:** Inhalation, skin, eye

**HEALTH HAZARDS:**

**ACUTE:** Possible mechanical irritation accompanied by itching or dermatitis.

**CHRONIC:** None known.

**HEALTH HAZARD EVALUATION**

One of the health questions about textile glass fiber is whether or not it can cause cancer in people. The diameter of these continuous filament fibers make them too large to be inhaled into the lungs by people. No health authority has found, and no test has shown, that glass textile fibers cause cancer in people. As a result of these findings, the World Health Organization and other authoritative bodies do not classify textile glass fiber as a carcinogen.

One of the reasons that people continue to have concerns about fiberglass and cancer are studies such as the 1997 study from the Institute of Occupational Medicine (IOM) in Edinburgh, Scotland. This study found that animals exposed to an extremely high dose of a durable E glass micro fiber, with average diameters less than 1 micron, developed lung scarring and tumors, including cancer of the lining of the lung (mesothelioma). The IOM study results are consistent with previously published research indicating that high doses of durable, fine diameter fibers can cause disease in experimental animals.

Although our continuous filaments are an E glass, they are not the same as the E micro fibers tested in the IOM study.

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## SECTION VI - EMERGENCY AND FIRST AID PROCEDURES

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**INHALATION:** If irritation develops move to fresh air.

**SKIN CONTACT:** If fibers irritate the skin wash with soap and water. To avoid further irritation do not rub or scratch.

**EYE CONTACT:** Flush eyes with water for 15 minutes or until fibers are removed.

**INGESTION:** N/A

**FOR ALL CONDITIONS SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.**

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## SECTION VII - EMPLOYEE PROTECTION

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**THE FOLLOWING PRECAUTIONS ARE ADVISABLE DURING CUTTING AND FABRICATION OR OTHER OPERATIONS THAT COULD GENERATE DUST WHILE USING THIS MATERIAL.**

**VENTILATION:** General dilution and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits (See Section II).



**RESPIRATORY PROTECTION:** A properly fitted NIOSH/MHSA approved dust respirator should be used when: 1) the level of dust in the air exceeds occupational exposure limits (See Section II); 2) or if irritation occurs. Use respiratory protection in accordance with your company's respiratory protection program, and OSHA regulations under 29 CFR 1910.134.

**EYE PROTECTION:** Use safety glasses, goggles, or face shields, as necessary.

**PROTECTIVE CLOTHING:** Wear loose fitting long sleeve shirt and pants or other appropriate clothing to protect those areas where irritation is experienced. Skin irritation is known to occur at pressure points such as around neck, wrist, waist, and fingers.

**WORK AND HYGIENIC PRACTICES:** Handle in accordance with good industrial hygiene and safety practices.

- Remove dust and fibers from the skin after exposure. Be careful not to rub or scratch irritated areas which could force fibers into the skin. Fibers should be washed off.
- Use of barrier creams can, in some instances, can be helpful.
- Use vacuum equipment to remove fibers and dust from clothing. Wash contaminated clothing separately and wipe out washer/sink in order to prevent loose fibers and dust from contaminating other laundry.
- Use vacuum equipment to clean work surfaces.

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#### SECTION VIII - REACTIVITY DATA

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**STABILITY:** Product is stable.

**INCOMPATIBILITY:** Phosphoric acid, hydrofluoric acid, and strong hydroxides.

**HAZARDOUS DECOMPOSITION PRODUCTS:** CO, CO<sup>2</sup>. Other undetermined compounds could be released in small quantities.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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#### SECTION IX - STORAGE PRECAUTIONS

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N/A

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#### SECTION X- ENVIRONMENTAL PROTECTION

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**SPIILLS:** N/A

**WASTE DISPOSAL:** Dispose as a solid non-hazardous waste, in accordance with federal, state, and local regulations.