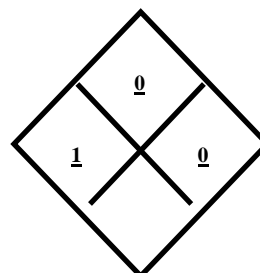




## MATERIAL SAFETY DATA SHEET

Health Hazard	1
Fire Hazard	0
Physical Hazard	0
Personal Protection	B

HMIS Rating



NFPA Rating

### SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product:** Quietflex Textile Duct Liner

**MSDS Number:** 4

**Trade Designation:** Air duct liner

**Manufacturer:** Quietflex Manufacturing Company, L.P.

**Date Issued:** October 24, 2007

**Address:** 4518 Brittmooore  
Houston, TX 77041

**Product Stewardship Support Line:** 713-849-2163, X200  
**24 hr Emergency (Chemtrec) Phone:** 800-424-9300

### SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	%	TLV	PEL
Fibrous Glass	65997-17-3	80-95	10 mg/m <sup>3</sup> (PNOC)	15 mg/m <sup>3</sup> (PNOR)
Phenol formaldehyde resin (cured)	N/A	5-20	None established	None established
Sizing, mixture of starches, modified vegetable oils, or polymers	Mixture	0-1	None established	None established
Formaldehyde*	50-00-0	<0.1	0.3 ppm	0.75 ppm

Key: TLV = ACGIH, 8 hr. time weighted average (TWA); PEL = OSHA permissible exposure limit.

\* Formaldehyde decomposition product present only above 300 deg C: TLV = ACGIH Ceiling Limit for workshift; PEL = OSHA permissible exposure limit.

PNOC = Particulates Not Otherwise Classified (ACGIH - Inhalable)

PNOR = Particulates Not Otherwise Regulated (OSHA - Total dust)

### SECTION III - HAZARDS IDENTIFICATION

**Emergency Overview:** This product is manufactured with a non-woven facing on the internal surface. In most cases the edges have also been sealed to limit fiber release and migration, making this product non-hazardous under normal conditions of use. Airborne particulate which may be created during cutting is considered nuisance dust which should be minimized through the use of good work practices and adequate ventilation.

**HMIS Rating:**            **Health: 1**            **Fire: 0**            **Reactivity: 0**            **Protection: B**

**Primary Routes of Entry:** Via particulate to the lungs and respiratory system and airborne fibers to the skin and eyes.

**Primary Target Organs:** Lungs, respiratory system, skin and eyes.

**Potential Health Effects:**

**Inhalation:** Irritating to the mucous membranes and respiratory tract.

**Skin Contact:** Irritation and redness due to excessive exposure.

**Eye Contact:** A mechanical irritant which can cause moderate to severe eye irritation.

**Ingestion:** Non-hazardous when ingested. Potentially a mild irritant to the GI tract if excessive quantity is ingested.

**Medical Conditions Aggravated by Exposure:** Pre-existing chronic upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Skin disease such as dermatitis.

### **SECTION III - HAZARDS IDENTIFICATION**

**Carcinogenicity:** This product is manufactured using textile grade glass filaments which are classified by IARC as group 3 (Unclassifiable as to carcinogenicity to humans). It is not classified by NTP or OSHA.

### **SECTION IV - FIRST AID MEASURES**

**Inhalation:** Remove to fresh air. Drink water to clear throat and blow nose to evacuate dust. If coughing and irritation develop, call a physician.

**Eye Contact:** Flush with large amounts of water until irritation subsides, as least 15 minutes. See a physician if irritation persists.

**Skin Contact:** Normal good personal hygiene practices. Wash with mild soap and warm water after each exposure.

**Ingestion:** Emergency procedures not normally required. May be a temporary irritant to the GI system.

### **SECTION V - FIREFIGHTING MEASURES**

**NFPA Rating:**            **Health: 1**            **Fire: 0**            **Reactivity: 0**            **Other: 0**

**Extinguishing Method:** Use water, foam, dry chemical or carbon dioxide.

**Special Firefighting Procedures:** Wear self contained breathing apparatus and protective clothing. Dense smoke may limit visibility in enclosed areas.

**Fire or explosion Hazards:** Product is not highly flammable however, in a major fire product will be consumed causing dense acrid smoke.

### **SECTION VI - ACCIDENTAL RELEASE MEASURES**

**Clean-up Procedures:** Pick up or shovel material into waste container taking care to minimize dust and fiber generation. Vacuum clean up is preferred. If sweeping is required use a dust suppressant.

**Personal Precautions:** If dusty conditions exist, wear a face mask approved for use with dusts such as 3M 8210, N95 or equivalent.

**Environmental Precautions:** This product is not regulated under RCRA Hazardous Waste Regulations. May be disposed in landfill. Comply with federal, state and local regulations.

## SECTION VII - HANDLING AND STORAGE

**Storage Requirements:** Store in dry area. Keep area clean. Vacuum dust. Use a dust suppressant if sweeping is necessary.

**Special Sensitivity or Incompatibility:** Hydrofluoric acid will react with and dissolve glass.

**Handling Precautions:** Assure proper respiratory protection if dust potential exceeds PEL/TLV.

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Maintain sufficient mechanical or natural ventilation to assure fiber concentrations remain below PEL/TLV. Use local exhaust if necessary. Power equipment should be equipped with properly designed dust collection devices.

**Respiratory Protection:** When over PEL/TLV wear an approved face mask such as 3M 8210, N95 or equivalent, to protect against inhalable glass wool fibers. Concentrations of fibers that exceed the recommendations of the mask manufacturer will need a higher level of respiratory protection, such as a half mask respirator with appropriate dust filters.

**Eye Protection:** Wear safety glasses with side shields, goggles or face shield when handling, installing or fabricating to protect eyes against dust and fibers.

**Skin Protection (clothing):** Long-sleeved, loose fitting clothes and head covering are recommended. Wash work clothes separately from other clothing, towels and linens to prevent fiber migration. Rinse washer thoroughly.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form:** Black or dark gray/green fibrous product with black facing and optional black edge coating, slight phenol formaldehyde odor.

**Melting Point:** 2250°F (glass)

**Specific Gravity:** Variable

**Solubility in Water:** Insoluble

**Pure/Mixture:** Mixture

## SECTION X – REACTIVITY

**Stability:** This is a stable, non-reactive product.

**Hazardous Decomposition Products:** Thermal decomposition of the resin may include carbon dioxide, carbon monoxide, formaldehyde, carbon particulate and traces of hydrogen cyanide.

## SECTION XI - TOXICOLOGICAL/ECOLOGICAL INFORMATION

**LD50:** N/Av **LC50:** N/Av

**Toxicological Hazards:** This product is manufactured with textile grade glass filaments which are classified by IARC as group 3 (Unclassifiable as to carcinogenicity to humans). It is not classified by NTP or OSHA.

**Ecological Hazards:** No data exists for this product.

**Teratogenicity, Mutagenicity, other Reproductive Effects:** None known

## SECTION XII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method** This product is not regulated under RCRA Hazardous Waste Regulations. May be disposed in landfill. If unsure, contact the local office of the USEPA, your local public health department or the local landfill regulators.

## SECTION XIII - TRANSPORTATION INFORMATION

**US DOT Shipping Name:** Not regulated

**DOT Label:** None

**UN/NA Number:** None

## SECTION XIV - REGULATORY INFORMATION

**OSHA Status:** This product is considered hazardous under OSHA criteria.

**TSCA/CEPA Status:** All components of this product are included in the TSCA and CEPA Chemical Inventories.

**CERCLA Reportable Quantity:** N/Av

### SARA Title III:

**Section 302 Extremely Hazardous:** This product contains no extremely hazardous substances as defined and listed in section #302.

**Section 311/312 Hazard Categories:** Reportable as a hazardous substance. Check with your Local Emergency Planning Committee for reportable quantities.

**Section 313 Toxic Chemicals:** This product does not contain substances which are reportable under Section 313.

**California Safe Drinking Water and toxic Enforcement Act (Prop. 65)** Not regulated.

**Canada (WHMIS):** This product is not controlled under Canadian WHMIS regulations.

## SECTION XV – APPROVALS

**Reason for Issue:** New MSDS      **Revision:** New  
**Prepared by:** Quietflex Manufacturing, L.P.

**Approval Date:** October 24, 2007  
**Supersedes Date:** None

## SECTION XVI – DISCLAIMER

As of the date of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state laws. However, no warranty or representation of law or fact, with respect to such information, is intended or given.