

BGM International

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Material Safety Data Sheet

Product Name: G11, G10, FR4

Product Type: Flat Sheet, Rod and Tube

Other Names: Glass Epoxy Laminate

Composition & Information on Ingredients:

Continuous Filament Fiber Glass	50-70%	CSA# Proprietary
Epoxy Resin	30-50%	CSA# Proprietary

Hazards Information:

Nonflammable sheet, rod and tube material which causes dust when ground or machined. May cause skin or eye irritation. Fumes from burning material may irritate eyes, nose and or throat.

Potential Health Hazards:

Skin: Dust may cause moderate irritation.

Eyes: Dust may cause moderate irritation.

Inhalation: Fibrous glass dust could be released when machining or fabricating. The dust generated would not be expected to produce respirable particles. IARC considers continuous glass filaments as unclassified or probably non-carcinogenic.

Ingestion: Not Determined

Delayed Effects: Fibrous glass dust could be released when machining or fabricating. The dust generated would not be expected to produce respirable particles. IARC considers continuous glass filaments as unclassified or probably non-carcinogenic.

First Aid Measures:

Skin: Was off dust with water or by showering. Change contaminated clothing.

Eyes: Irrigate with water for 15 minutes.

Inhalation: If overcome by smoke or dust, move to fresh air and contact emergency medical personnel.

Ingestion: If large amounts are ingested seek medical assistance.

Advice to Physician: Treat symptomatically.

Fire Fighting:

May give off toxic hydrogen bromide gas, CO, CO₂ when during or heated to decomposition. Firemen should wear the proper protective equipment and positive pressure self-contained breathing apparatus. Use water, CO₂ and or dry chemical to fight fire.

Accidental Release Measures:

Does not apply.

Handling and Storage:

No special considerations.

Exposure Controls:

Use local exhaust and ventilation systems to control dust and fumes when grinding or fabricating.

Personal Protective Equipment:

Skin Protection: For brief contact due to dust, no precautions other than clean body-covering clothing should be needed. Use gloves and aprons when prolonged or frequently repeated contact occurs.

Eye Protection: Use appropriate eye protection devices when machining the material.

Exposure Guidelines:

Ingredient Name:	CSA#	CGIH TLV	OSHA PEL
Fibrous Glass Dust	(65997-17-3)	10mg/m ³	None

Physical & Chemical Properties:

Solid, flat sheet material, solid rolled tube material and solid rolled rod material.

Specific Gravity: 1.8 – 1.9

Toxicological Information:

May cause minor eye, skin or throat irritation.

Stability and Reactivity:

The product is stable and no incompatibilities have been determined.

Delayed Effects: NTP has determined that respirable size glass wool may be reasonably anticipated to be a carcinogen. IARC has also classified glass wool as a possible carcinogen. This product is manufactured using continuous glass filaments. Dust from grinding and or machining would not be expected to produce respirable particles.

Other Data: The toxicity of the combustion products was evaluated in a similar product with 95% confidence limits, the LC₅₀ was calculated to be 40.4 (32.3 – 69.9) mg/L. The LC₅₀ of the standard reference material, Douglas Fir, is 27.1 mg/L.

Ecological and Disposal Considerations:

Not biodegradable. Not considered a RCRA hazardous material if discarded. Disposal must be made according to all applicable laws. This information covers the material as shipped from our plant. It does not cover mixing with other materials.

Regulatory/Transportation:

There are no SARA 313 toxic chemicals used to make this material and it is not regulated by the DOT. These products are RoHS compliant.

Contact Customer Service for additional information: 757-485-0016

Form Date: 10/15/2008

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