

# MATERIAL SAFETY DATA SHEET

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## Section 1. Chemical Product and Company Identification

Product Code GFE4-25"1	
Product Name GFE EPOXY MOLDING COMPOUND	
Manufacturer's Name Mark V Laboratory, Inc.	Emergency Telephone Number CHEMTREC 800-424-9300
Address (Number, Street, City, State, and ZIP Code) 18 Kripes Road	Telephone Number For Information (860) 653-7201
Post Office Box 540	Date Prepared March 24, 2012
East Granby, Connecticut 06026	Signature of Preparer (optional)

## Section 2. Composition / Information on Ingredients

Component	CAS Registry #	wt. %	Exposure Limits	
			ACGIH TLV	OSHA PEL
Glass Fiber (Respirable Nuisance Dust)	65997-17-3	<20	5mg/m3	10mg/m3
Mica	12001-26-2	<5	20mppcf	3.0mg/m3
Crystalline Silica	14808-60-7	<60	0.1mg/m3	0.1mg/m3
Phenol	108-95-2	<0.3	5ppm (skin)	5ppm (skin)
Epoxy Novolac Polymer	9003-36-5	<20	NE	NE
Phenolic Polymer	9003-35-4	<15	NE	NE

## Section 3. Hazards Identification

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### EMERGENCY OVERVIEW

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#### **POTENTIAL HEALTH EFFECTS:**

**EYE CONTACT:** Dust and vapors may cause irritation.

**INHALATION:** Dust and vapors may cause irritation of the respiratory tract.

**SKIN CONTACT:** May cause irritation and/or allergic reactions in sensitized individuals.

**INGESTION:** None known.

**CHRONIC EFFECTS:** Phenol vapors may be released during the molding process. Overexposure to these vapors may cause irritation to eyes, nose, throat, and skin. Dust will cause nose and throat irritation and will be moderately irritating to the eyes. Dust is irritating to skin upon repeated and prolonged contact. Allergic skin reactions may be experienced by sensitized individuals. Airborne silica can cause lung damage (silicosis) on repeated and prolonged contact. Resulting symptoms can be shortness of breath, cough, difficulty breathing, and pain in the lungs. Mica inhalation can cause lung damage. The glass fiber is considered a mechanical irritant and nuisance dust.

Product: Epoxy Molding Compound

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#### Section 4. First Aid Measures

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**INHALATION:** Move to fresh air. Get medical attention.

**EYE CONTACT:** Flush with water for 15 minutes. Consult a physician.

**SKIN CONTACT:** Wash with soap and water.

**INGESTION:** **Drink** large quantities of water. Contact poison control or emergency department.

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#### Section 5. Fire Fighting Measures

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**FLAMMABLE PROPERTIES:**

FLASH POINT: N/A

METHOD USED:

**FLAMMABLE LIMITS**

LFL: N/A

UFL: N/A

**EXTINGUISHING MEDIA:** CO2, dry chemical, foam, water fog

**FIRE & EXPLOSION HAZARDS:** None known

**FIRE FIGHTING EQUIPMENT:** Use self-contained breathing apparatus.

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#### Section 6. Accidental Release Measures

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Avoid breathing dust and vapors. Use appropriate PPE. Sweep or vacuum spills.

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#### Section 7. Handling and Storage

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Keep in a tightly closed container at or below 40f. Avoid breathing dust and vapors.

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#### Section 8. Exposure Controls / Personal Protection

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**ENGINEERING CONTROLS:** Good general ventilation and local exhaust recommended.

**RESPIRATORY PROTECTION:** Use NIOSH/MSHA approved respirator

**SKIN PROTECTION :** Impervious gloves

**EYE PROTECTION:** Safety glasses with side shields, goggles face shield.

Product: Epoxy Molding Compound

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**Section 9. Physical and chemical Properties**


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<b>APPEARANCE:</b>	Black granules	<b>PHYSICAL STATE:</b>	Solid
<b>BOILING POINT:</b>	NA	<b>SOLUBILITYINWATER:</b>	Negligible
<b>EVAPORATION RATE:</b>	NA	<b>SPECIFIC GRAVITY:</b>	1.90-2.05
<b>FREEZING POINT:</b>	NE	<b>VAPOR DENSITY:</b>	
<b>MELTING POINT:</b>	NE	<b>VAPOR PRESSURE:</b>	Negligible @ 20c
<b>MOLECULAR WEIGHT:</b>		<b>VISCOSITY:</b>	NA
<b>ODOR:</b>	Slight mild	<b>% VOLATILE:</b>	NA
<b>pH:</b>	Not determined		

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**Section 10. Stability and Reactivity**


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**CHEMICAL STABILITY:** Stable

**INCOMPATIBILITY:** Strong oxidizing agents, strong acids

**HAZARDOUS DECOMPOSITION PRODUCTS:** Phenol, formaldehyde, alkyl phenols, aromatic Hydrocarbons, COx, Nox, acid fumes.

**HAZARDOUS POLYMERIZATION:** Does not occur

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**Section 11. Toxicological Information**


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**EYE:** Irritant to eyes.

**SKIN:** Irritant to skin may cause allergic reactions.

**INGESTION:** None Known

**INHALATION:** Irritating to the respiratory tract.

**CARCINOGENICITY:** Crystalline silica and carbon black are listed under California's Proposition 65 as carcinogenic hazards.

**REPRODUCTION:** None known

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**Section 12. Ecological Information**


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Based on current information, there are no special precautions.

Product: Epoxy Molding Compound

**Section 13. Disposal Considerations**

Dispose of in accordance with Local, State, and Federal Regulations, which may vary by location.

**Section 14. Transport Information (Not meant to be all inclusive)**

D.O.T. SHIPPING NAME: NA  
 TECHNICAL SHIPPING NAME: NA  
 D.O.T. HAZARD CLASS: NA  
 U.N. / N.A. NUMBER: NA  
 PRODUCT RQ (LBS): 1000 LBS / 454 KG (PHENOL ONLY)  
 D.O.T. LABEL: NA  
 D.O.T. PLACARD: NA  
 FREIGHT CLASS BULK: NA  
 FREIGHT CLASS PACKAGE: NA  
 PRODUCT LABEL: GFE-1, 5,25

**Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)**

OSHA STATUS: Yes

TSCA STATUS: Yes

CERCLA REPORTABLE QUANTITY: 1000 LBS / 454 KG (PHENOL ONLY)

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: 1000 LBS / 454 KG (PHENOL ONLY)

SECTION 311/312 HAZARDOUS CATEGORIES: 1000 LBS / 454 KG (PHENOL ONLY)

SECTION 313 TOXIC CHEMICALS: 1000 LBS / 454 KG (PHENOL ONLY)

RCRA STATUS: To be determined by user

CALIFORNIA PROPOSITION 65: Yes

**Section 16. Other Information**

MSDS STATUS:

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