



1801 Morgan Street  
Rockford, IL 61102  
Phone: (815) 968-9661  
Fax: (815) 968-9731  
www.gcelectronics.com

MSDS Number: 124  
Revision Date: 1/23/12  
Supersedes Date: 01/21/09

## Product Name: Epoxy Putty

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Type: Adhesive  
Product Name: **Epoxy Putty**  
Part Number(s): 19-348

Emergency Contact: Chemtrec  
Phone: (800) 424-9300

### SECTION 2 - HAZARD(S) IDENTIFICATION

NFPA		HMIS	
<b>HEALTH HAZARD</b> 4 Deadly 3 Extreme Danger 2 Hazardous 1 Slightly Hazardous 0 Normal Mat	<b>FIRE HAZARD FLASH POINTS</b> 4 Below 73°F (Boiling pt. below 100°F) 3 Below 73°F (Boiling pt. at/above 100°F) and/or at/above 73°F - not exceeding 1 2 Above 100°F, Not exceeding 200°F 1 Above 200°F 0 Will not burn	<b>HEALTH</b> 1 <b>FLAMMABILITY</b> 1 <b>REACTIVITY</b> 0 PPE <input checked="" type="checkbox"/> X	0 Minimal Hazard 1 Slight Hazard 2 Moderate Hazard 3 Serious Hazard 4 Severe Hazard
<b>SPECIFIC HAZARD</b> Oxidizer OX Use NO WATER —W Simple Asphyxiant SA	<b>INSTABILITY</b> 4 May detonate 3 Shock and heat may detonate 2 Violent chemical changes 1 Unstable if heated 0 Stable		
<b>Health</b> Acute Toxicity: N/A Skin Corrosion: N/A Eye Irritation: N/A Skin Sensitization: NO	<b>Environmental</b> Acute Toxicity: N/A Chronic Toxicity: N/A	<b>Physical</b> Flammability: N/A Other: N/A	
<b>Hazardous Statement</b> Harmful if swallowed. Eye irritant. Contains epoxy and amine resins.		<b>Precautionary Statement</b> Keep out of reach of children. Potential sensitizer irritant.	

### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Chemicals	CAS #	EINECS#	Approx %
MAGNESIUM SILICATE HYDRATE	14807-96-6	238-877-9	30-60%
AMINOETHYLPIPERAZINE	140-31-8	205-411-0	1-5%
TITANIUM DIOXIDE	13463-67-7	236-675-5	1-5%
BISPHENOL A DIGLYCIDYL ETHER RESIN	25068-38-6	N/A	10-30%
CRYSTALLINE SILICA	14808-60-7	238-878-4	0.1-1%
TRADE SECRET	N/A	N/A	10-30%

\*Title III Section 313 Supplier Notification: This product contains toxic chemicals subject to the reporting requirement of Section 313 of the Emergency Planning and Community Right-to-Know of 1986 and of 40CFR372. This information must be included in all MSDS's that are copied and distributed for this material.



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### SECTION 4 - FIRST-AID MEASURES

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

**Skin:** Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

**Eyes:** 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. Get immediate medical attention.

**Ingestion:** If swallowed, do NOT induce vomiting. Call a physician or poison control center.

### SECTION 5 - FIRE-FIGHTING MEASURES

<u>Extinguishing Media</u>		<u>Specific Hazards</u>	<u>Protective Equipment</u>
<u>Suitable</u> Carbon Dioxide Dry Chemical	<u>Unsuitable</u> Water Foam	NONE.	Self-contained breathing apparatus {(SCBA), MSHA/NIOSH}. Full protective gear.
<u>Special Firefighting Procedures</u> Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do NOT enter confined fire space without full protective gear. If possible, contain fire run-off water.			

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

**Protective Equipment:** None.

**Emergency Procedures:** None.

**Environmental Precautions:** Avoid runoff into storm sewers, ditches, and waterways.

**Methods for Cleaning-Up:** Absorb spill with inert material, then place in a chemical waste container. Provide ventilation. Cleanup spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Avoid personal contact and breathing vapors or mists. Ventilated area. Use proper personal protective equipment as listed in section 8.

**Other Precautions:** Pump or shovel to storage/salvage vessels.

### SECTION 7 - HANDLING AND STORAGE

<u>Handling</u>	<u>Storage</u>
Use with adequate ventilation. Avoid breathing vapors, aerosol or mist. Provide appropriate ventilation/respiratory protection against decomposition products during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.	Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use.



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### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Hazardous Components</u>		<u>OSHA Exposure Limits</u>	
		<u>ACGIH-TLV</u>	<u>OSHA-PEL</u>
MAGNESIUM SILICATE HYDRATE		2 mg/m <sup>3</sup>	20 mppcf
AMINOETHYLPIPERAZINE		N/A	N/A
TITANIUM DIOXIDE		10 mg/m <sup>3</sup>	N/A
BISPHENOL A DIGLYCIDYL ETHER RESIN		N/A	N/A
CRYSTALLINE SILICA		0.025 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
TRADE SECRET		N/A	N/A
<u>Personal Protective Equipment</u>			
Respiratory Protection:		A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not be provide adequate protection.	
Ventilation:		None.	
Other Protective Equipment:		<u>Protective Gloves</u> Gloves.	<u>Eyes and Face Protection</u> Glasses/Splash goggles.
Other Precautions:		None.	<u>Other Protective Equipment</u> Eyewash & shower safety station.
<u>Engineering Controls</u>			
None.			

### SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Putty	Volatile by Volume:	N/A
Odor:	Low	Vapor Pressure:	Negligible
Odor Threshold:	N/A	Vapor Density:	>1 (air=1)
pH:	9.5 @ 5 percent solution	Relative Density:	N/A
Melting/Freezing Point:	N/A	Solubility:	Negligible
Boiling Point:	N/A	Partition Coefficient: n-octanol/water:	N/A
Boiling Range:	N/A	Auto-ignition Temperature:	N/A
Flash Point:	>500°F (260°C)	Specific Gravity (H2O=1):	1.9
Evaporation Rate:	<1 (butyl acetate=1)	Viscosity:	N/A
Flammability:	N/A	VOC:	0 g/l
Flammability Limits:	LEL:N/A ; UEL:N/A		

### SECTION 10 - STABILITY AND REACTIVITY

<u>Stability</u>		<u>Hazardous Polymerization</u>	<u>Conditions To Avoid</u>
Stable	Unstable	May Occur	Will Not Occur
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Incompatible Materials</u> Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (specially primary and secondary aliphatic amines).		<u>Hazardous Decomposition Products</u> None.	



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### SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure		Symptoms/Effects
Inhalation	<input checked="" type="checkbox"/>	Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects. May cause respiratory sensitization with asthma-like symptoms. Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction. Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage & permanent injury. Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.
Skin Contact	<input checked="" type="checkbox"/>	
Eye Contact	<input checked="" type="checkbox"/>	
Ingestion	<input checked="" type="checkbox"/>	
Long-Term Effects:		Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction. Overexposure can cause headaches, dizziness, nausea, and vomiting.
Pre-Existing Conditions:		Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.
Hazardous Components		Toxicity
MAGNESIUM SILICATE HYDRATE		LD 50 N/A
AMINOETHYLPIPERAZINE		Oral: 2140 uL/kg (rat) ; Dermal: 880 uL/kg (rabbit)
TITANIUM DIOXIDE		N/A
BISPHENOL A DIGLYCIDYL ETHER RESIN		N/A
CRYSTALLINE SILICA		N/A
TRADE SECRET		N/A
		LC 50 N/A

### SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	None.
Persistence & Degradability:	None.
Bioaccumulative Potential:	None.
Mobility in Soil:	None.
Other Adverse Effects:	None.

### SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

### SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. (U.S.) : Not Regulated.

### SECTION 15 - REGULATORY INFORMATION

None.

### SECTION 16 - OTHER INFORMATION

GC Electronics believes that the information contained herein is accurate and reliable as of the date of this material safety data sheet, but no representation guarantee or warranty, express or implied, is made as to the accuracy, reliability or completeness of the information. Persons receiving information are encouraged to make their own determination as to the information's suitability and completeness for their particular application. NO INFORMATION CONTAINED HEREIN CONSTITUTES A PRODUCT WARRANTY OF ANY KIND, WHETHER EXPRESS OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANT ABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.