

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

MSDS Number: 124
 Revision Date: 04/14/2015
 Supersedes Date: 01/20/2015

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200











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: HAZARDS IDENTIFICATION

<p>Labels</p>  <p>Irritant</p> <p>Signal Word Warning</p> <p>HMIS</p> <table style="width: 100%; border: 1px solid black;"> <tr> <td style="background-color: #000080; color: white; padding: 2px;">HEALTH</td> <td style="text-align: center; padding: 2px;">2</td> </tr> <tr> <td style="background-color: #FF0000; color: white; padding: 2px;">FLAMMABILITY</td> <td style="text-align: center; padding: 2px;">1</td> </tr> <tr> <td style="background-color: #FFD700; padding: 2px;">REACTIVITY</td> <td style="text-align: center; padding: 2px;">1</td> </tr> </table>	HEALTH	2	FLAMMABILITY	1	REACTIVITY	1	<p style="text-align: center;">NFPA</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p>HEALTH HAZARD 4 - Deadly 3 - Extreme Danger 2 - Hazardous 1 - Slight Hazardous 0 - Normal Material</p> </td> <td style="width: 10%; border: none; text-align: center;">  </td> <td style="width: 40%; border: none;"> <p>FIRE HAZARD Flash Points 4 - Below 73°F 3 - Below 100°F 2 - Above 100°F, Not exceeding 200°F 1 - Above 200°F 0 - Will not burn</p> </td> </tr> <tr> <td style="border: none;"> <p>SPECIFIC HAZARD Oxidizer OX Acid ACID Alkali ALK Corrosive COR Use NO WATER  Radioactive </p> </td> <td style="border: none; text-align: center;"> <p>REACTIVITY 4 - May detonate 3 - Shock and heat may detonate 2 - Violent chemical change 1 - Unstable if heated 0 - Stable</p> </td> <td style="border: none;"></td> </tr> </table>	<p>HEALTH HAZARD 4 - Deadly 3 - Extreme Danger 2 - Hazardous 1 - Slight Hazardous 0 - Normal Material</p>		<p>FIRE HAZARD Flash Points 4 - Below 73°F 3 - Below 100°F 2 - Above 100°F, Not exceeding 200°F 1 - Above 200°F 0 - Will not burn</p>	<p>SPECIFIC HAZARD Oxidizer OX Acid ACID Alkali ALK Corrosive COR Use NO WATER  Radioactive </p>	<p>REACTIVITY 4 - May detonate 3 - Shock and heat may detonate 2 - Violent chemical change 1 - Unstable if heated 0 - Stable</p>		<p style="text-align: center;">GHS Classification</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p style="text-align: center;">Health</p> <p>Acute Toxicity: Not Established Skin Irritation: Cat. 2 Eye Irritation: Cat. 2B Skin Sensitization: Cat. 1</p> </td> <td style="width: 50%; border: none;"> <p style="text-align: center;">Environmental</p> <p>Acute Aquatic Toxicity: Not Established Chronic Aquatic Toxicity: Not Established</p> </td> </tr> <tr> <td colspan="2" style="border: none; text-align: center;"> <p>Physical None</p> </td> </tr> </table>	<p style="text-align: center;">Health</p> <p>Acute Toxicity: Not Established Skin Irritation: Cat. 2 Eye Irritation: Cat. 2B Skin Sensitization: Cat. 1</p>	<p style="text-align: center;">Environmental</p> <p>Acute Aquatic Toxicity: Not Established Chronic Aquatic Toxicity: Not Established</p>	<p>Physical None</p>	
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<p style="text-align: center;">Hazardous Statements</p> <p>H315: Causes skin irritation H317: May cause an allergic skin reaction H320: Causes eye irritation</p>		<p style="text-align: center;">Precautionary Statements</p> <p>P261: Avoid breathing dust P264: Wash thoroughly after handling P272: Contaminated work clothing should not be allowed out of the work place P280/P284: Wear protective gloves/protective clothing/eye protection/face protection.</p>																

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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Chemicals	CAS#	EINECS#	REACH Pre-registration Number	Approx %
BISPHENOL-A-(EPICHLORHYDRIN); EPOXY RESIN	25068-38-6	N/A	N/A	10-30%
2,4,6-TRIS (DIMETHYLAMINOMETHYL) PHENOL	90-72-7	N/A	N/A	1-5%
CRYSTALLINE SILICA NON-RESPIRABLE	14808-60-7	N/A	N/A	0.1-1%

*Unlisted ingredients are not classified as hazardous according to OSHA 1910.1200.



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SECTION 4: FIRST AID MEASURES

Inhalation: Move into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and call physician.
Skin: Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Wash skin thoroughly with soap and water. Get medical attention.
Eyes: Flush with water for 15 minutes. Remove contact lenses if present and easy to do so. If irritation persists, get medical attention.
Ingestion: Give 1 or 2 glasses of water. **DO NOT INDUCE VOMITING.** Contact physician immediately.

SECTION 5: FIRE FIGHTING MEASURES

Fire Hazard: None.
Combustion Products: None.
Extinguishing Media: Carbon Dioxide Gas, Dry Chemical Powder.
Unsuitable Extinguishing Media: Water, Foam.
Protective Equipment: Self-contained breathing apparatus {(SCBA), MSHA/NIOSH}. Full protective gear.
Special Fire Fighting Procedures: 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. Clean up 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. Ventilate area.

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 Chemicals</u>	<u>Exposure Limits</u>		
	<u>ACGIH-TLV</u>	<u>ACGIH-STEL</u>	<u>OSHA-PEL</u>
CRYSTALLINE SILICA NON-RESPIRABLE	TWA: 0.025 mg/m ³ - FORM: RESPIRABLE FRACTION	N/A	TWA: 10 mg/m ³ FORM: RESPIRABLE

Engineering Controls: Use appropriate engineering controls such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Ventilation: Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment.

Personal Protective Equipment – Respiratory: 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 provide adequate protection.

Personal Protective Equipment – Skin: Wear appropriate protective gloves and other protective apparel to prevent skin contact.

Personal Protective Equipment – Eyes: Wear appropriate protective glasses or splash goggles.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Putty	Flash Point: >400°F (205.4°C)	Vapor Pressure: 0.03mm Hg @20°C
Odor: Slight	Specific Gravity: 1.19	Flammability: Not Established
pH: Not Established	Solubility (H₂O): Negligible	Flammability Limits: LEL – Not Established UEL – 11.8%
Melting Point: Not Established	Evaporation Rate: <<1	
Freezing Point: Not Established	Vapor Density: >1	
Boiling Point: >500°F (260°C)	VOC: 0 g/l	

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Conditions to avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Heating resin above 300°F in the presence of air may cause slow oxidative decomposition.

Incompatible materials: Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (specially primary and secondary aliphatic amines).

Hazardous decomposition products: None known.



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SECTION 11: TOXICOLOGICAL INFORMATION

<u>Hazardous Chemicals</u>	<u>Toxicity</u> <u>LD₅₀</u>	<u>LC₅₀</u>
2,4,6-TRIS (DIMETHYLAMINOMETHYL) PHENOL	Dermal: 1280 mg/kg (rat) Oral: 1200 mg/kg (rat)	N/A N/A
<p>Likely Routes of Exposure: Inhalation, Skin Contact and Eye Contact, Ingestion. Symptoms and Effect - Inhalation: Respiratory tract irritation. High concentration may cause dizziness, headaches, and anesthetic effects. May cause respiratory sensitization with asthma-like symptoms. Skin Contact: Can cause skin irritation; itching, redness, rashes, hives, burning and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction. Eye Contact: Can cause moderate irritation, burning sensation, tearing, redness and swelling. Over exposure may cause lacrimation, corneal damage and permanent injury. Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain. Long-Term Effect: 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.</p>		

SECTION 12: ECOLOGICAL INFORMATION

<p>Ecotoxicity: None known. Persistence & Degradability: None known. Bioaccumulative Potential: None known. Mobility in soil: None known.</p>
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SECTION 13: DISPOSAL CONSIDERATION

Dispose of product or container in accordance with federal, state or local regulations.

SECTION 14: TRANSPORTATION INFORMATION

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



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SECTION 15: REGULATORY INFORMATION

Precautionary Label Information: None.
Risk Phrases: None.
Safety Phrases: S2-Keep out of reach of children.

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.