



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

MSDS Number: 124
 Revision Date: 01/20/2015
 Supersedes Date: 01/23/2012

MATERIAL 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>None</p>	<p align="center">NFPA</p> <table border="0"> <tr> <td data-bbox="402 1016 548 1115"> <p>HEALTH HAZARD 4 - Deadly 3 - Extreme Danger 2 - Hazardous 1 - Slight Hazardous 0 - Normal Material</p> </td> <td data-bbox="548 1066 678 1199"> </td> <td data-bbox="678 1016 808 1142"> <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 data-bbox="402 1157 548 1276"> <p>SPECIFIC HAZARD Oxidizer OX Acid ACID Alkali ALK Corrosive COR Use NO WATER W Radioactive R</p> </td> <td data-bbox="678 1157 808 1283"> <p>REACTIVITY 4 - May detonate 3 - Shock and heat may detonate 2 - Violent chemical change 1 - Unstable if heated 0 - Stable</p> </td> <td></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 W Radioactive R</p>	<p>REACTIVITY 4 - May detonate 3 - Shock and heat may detonate 2 - Violent chemical change 1 - Unstable if heated 0 - Stable</p>		<p align="center">GHS Classification</p> <table border="0"> <tr> <td data-bbox="829 1031 1149 1171"> <p>Health Acute Toxicity: Not Established Skin Irritation: Not Established Eye Irritation: Not Established Skin Sensitization: NO</p> </td> <td data-bbox="1149 1031 1565 1142"> <p>Environmental Acute Aquatic Toxicity: Not Established Chronic Aquatic Toxicity: Not Established</p> </td> </tr> <tr> <td colspan="2" data-bbox="829 1199 1565 1262"> <p align="center">Physical Flammability: Not Established</p> </td> </tr> </table>	<p>Health Acute Toxicity: Not Established Skin Irritation: Not Established Eye Irritation: Not Established Skin Sensitization: NO</p>	<p>Environmental Acute Aquatic Toxicity: Not Established Chronic Aquatic Toxicity: Not Established</p>	<p align="center">Physical Flammability: Not Established</p>	
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<p>Signal Word</p> <p>None</p> <p>HMIS</p> <table border="1"> <tr> <td>HEALTH</td> <td>2</td> </tr> <tr> <td>FLAMMABILITY</td> <td>1</td> </tr> <tr> <td>REACTIVITY</td> <td>1</td> </tr> </table>	HEALTH	2	FLAMMABILITY	1	REACTIVITY	1						
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FLAMMABILITY	1											
REACTIVITY	1											
<p align="center">Hazardous Statements</p> <p>H319: Causes serious eye irritation H332: Harmful if inhaled</p>	<p align="center">Precautionary Statements</p> <p>P102: Keep out of reach of children</p>											

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Chemicals</u>	<u>CAS#</u>	<u>EINECS#</u>	<u>REACH Pre-registration Number</u>	<u>Approx %</u>
Non-hazardous ingredients	N/A	N/A	N/A	30-60%
BISPHENOL A DIGLYCIDYL ETHER RESIN	25068-38-6	N/A	N/A	10-30%
MAGNESIUM SILICATE HYDRATE	14807-96-6	238-877-9	N/A	10-30%
CRYSTALLINE SILICA	14808-60-7	238-878-4	N/A	0.1-1%

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.



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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 skin thoroughly with soap and water.
Eyes: Flush with water for 15 minutes. 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

Handling
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.

Storage
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 PROTECTON

<u>Hazardous Chemicals</u>	<u>Exposure Limits</u>		
	<u>ACGIH-TLV</u>	<u>ACGIH-STEL</u>	<u>OSHA-PEL</u>
Non-hazardous ingredients	N/A	N/A	N/A
BISPHENOL A DIGLYCIDYL ETHER RESIN	N/A	N/A	N/A
MAGNESIUM SILICATE HYDRATE	2 mg/m3	N/A	20 mppcf
CRYSTALLINE SILICA	0.025 mg/m3	N/A	10 mg/m3

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
Melting Point: Not Established	Evaporation Rate: <<1	UEL – 11.8%
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>LD₅₀</u>	<u>LC₅₀</u>
Non-hazardous ingredients	N/A	N/A
BISPHENOL A DIGLYCIDYL ETHER RESIN	N/A	N/A
MAGNESIUM SILICATE HYDRATE	N/A	N/A
CRYSTALLINE SILICA	N/A	N/A

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.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: None known
Persistence & Degradability: None known
Bioaccumulative Potential: None known
Mobility in soil: None known

SECTION 13: DISPOSAL CONSIDERATIONS

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: DISCLAIMER

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 MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.