1801 Morgan Street Rockford, IL 61102 Phone: (815) 968-9661 Fax: (815) 968-9731 www.gcelectronics.com Product Name: Epoxy Glue, Part A

MSDS Number: 133A Revision Date: 5/15/03 Supersedes Date: 8/2/00

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: Adhesive

Product Name: Epoxy Glue, Part A Resin

Part Number(s): 10-347

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

| Section 1 – Identification of Product | | | | |
|---------------------------------------|-------------|------------------------|---|--|
| Chemical Composition: | Mixture | | | |
| Chemical Family: | Epoxy Resin | | | |
| HMIS RATINGS | | Least | 0 | |
| Health | 2 | Slight | 1 | |
| Flammability | 1 | Moderate | 2 | |
| Reactivity | 0 | High | 3 | |
| Personal Protection | В | Extreme | 4 | |
| | | Gloves, Safety Glasses | В | |

Section 2 – Hazardous Ingredients

| Name | CAS# | OSHA PEL | ACGIH TLV |
|------------------------------|------------|----------|-----------|
| Bisphenol-A Type Epoxy Resin | 25068-38-6 | NE | NE |
| Butyl Glycidyl Ether | 2426-08-6 | 25 ppm | 25 ppm |
| Amorphous Silicon Dioxide | 7631-86-9 | 20 mppcf | NA |
| Calcium Carbonate | 1317-65-3 | 10 mg/m3 | NA |

^{*} Exact identity withheld as a trade secret.

Section 3 – Physical Data

Flash Point (pmcc): > 200°F
Boiling Point: > 200°F
Vapor Density: > Air
% Volatile by Vol.: 0
Specific Gravity: 1.3
Evaporation Rate: Nil

Solubility in Water: Negligible Vapor Pressure: <1 mm Hg

Appearance and Odor: Paste, mild epoxy odor

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Section 4 - Fire and Explosion Hazard Data

Extinguishing Media: Water fog, carbon dioxide, foam or dry chemical.

Special Fire Fighting Procedures: Full protective equipment including self-contained breathing apparatus should be

used. Water spray may be used to cool fire exposed container to prevent

pressure build-up and possible auto-ignition or rupture.

Unusual Fire & Explosion Hazards: Keep containers tightly closed. Water may be used to cool unruptured

containers.

Section 5 – Health Hazard Data

Medical conditions prone to aggravation by exposure:

Preexisting disorders of the skin and/or eyes.

Eye Contact: Contains ingredients which are irritating to the eyes. Symptoms may include

blurred vision, burning sensation and tearing.

Skin Contact: Contains materials which cause moderate skin irritation. This product may cause

skin sensitization or allergic reactions which may be severe with certain people. Symptoms include rash, itching, hives and swelling of extremities. Prolonged or

repeated exposure may cause a defatting or drying action to skin.

Inhalation: Unlikely at room temperature due to low volatility, however heating can

generate vapors that may cause respiratory irritation.

Ingestion: Product is harmful if swallowed.

Chronic Health Effects: The Bisphenol-A epoxy (DGEBA) resin this product contains has been shown to

be mutagenic in some microbial tests, but failed to show mutagenicity in others, the significance of this is unknown. Chromosomal abberations were observed in cultured rat liver cells. Two year bioassays on mice exposed by the dermal route to DGEBA resin gave only very limited evidence of weak carcinogenicity. Based on this and other evidence the International Agency for Research on Cancer (IARC) concluded in 1988 that DGEBA epoxy resins are not classifiable

as carcincogens.

Butyl glycidyl ether may induce mutagenic changes in laboratory test animals. This has not been related to human exposures, however good ventilation and industrial hygiene practices should be followed when handling products

containing this ingredient.

Emergency First Aid Procedures:

Inhalation: Move person to fresh air. Restore breathing. Treat symptomatically. Consult a

physician.

Eyes: Flush eyes with water for at least 15 minutes. Take to a physician for medical

treatment.

Skin: Wash affected areas with soap and water. Remove contaminated clothing.

Consult a physician if irritation persists.

Ingestion: Drink plenty of water to dilute. Do not induce vomiting. Give medical attention

immediately. Never give anything by mouth to an unconscious person.

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Materials to Avoid:

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Section 6 - Reactivity Data

Stability: Hazardous Polymerization: Conditions to Avoid:

✓ Stable ✓ Will Not Occur Unstable Will Occur

High temperatures, high humidity.

Strong oxidizing agents, acids, bases and amines

Section 7 – Spill or Leak Procedures

Spills:

Contain and remove with absorbent material. Avoid contact.

Waste Disposal Method: Disposal should be done in accordance with federal (40 CFR Part 261), state and

local regulations. Before attempting clean-up, refer to hazard caution

information in other sections of the MSDS form. Use only licensed hazardous

waste disposal companies.

Section 8 – Special Protection Information

Respiratory Protection: Use approved chemical/mechanical filters designed to remove a combination of

particulates and organic vapors in open and restricted area when ventilation does

not meet the requirements of 29 CFR 1910.134. Use approved airline type

respirators or hoods in confined areas.

Ventilation: Sufficient ventilation in pattern and volume to keep the air contaminant

concentration below applicable exposure limits. All application areas should be

ventilated in accordance with OSHA regulation 29 CFR 1910.134.

Use neoprene or other impervious gloves to prevent skin contact. Protective Gloves:

Use safety glasses with side shields as minimum protection. Eve Protection:

Use protective cream if skin contact is likely. Remove and wash contaminated Other Protective Equipment:

clothing before reuse. Discard contaminated shoes.

Wash hands before eating, smoking or using toilet facilities. Do not smoke in **Hygenic Practices:**

any chemical handling and storage area. Food or beverage should not be

consumed anywhere near where this product is handled or stored.

Section 9 – Special Precautions

Handling and Storage:

Do not store near heat or open flame.

Other:

Empty container should not be reused.

Section 10 – Regulatory Information

DOT Proper Shipping Name:

Not Regulated

Hazard Class or Division: Packing Group Number:

NA NA

Required Label: **Identification Number:**

None NA

TSCA Status:

All components of this product are listed on, or exempted from the requirement

to be listed on, the TSCA inventory.

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MSDS Number: 133A

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NA=Not Available na=not applicable NE = Not Established ND = Not Determined mppcf = million parts/ft3 mg/M3 = milligrams per cubic meter

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