

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

Product Name: Epoxy Super Glue, Part A

MSDS Number: 106A
Revision Date: 2/16/04
Supersedes Date: 5/14/03

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: Adhesives
Product Name: **Epoxy Super Glue, Part A Resin**
Part Number(s): **10-100**

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

Section 1 – Identification of Product

Chemical Composition: Mixture
Chemical Family: Epoxy Resin

HMIS RATINGS

Health	2	Least	0
Flammability	1	Slight	1
Reactivity	0	Moderate	2
Personal Protection	B	High	3
		Extreme	4
		Gloves, Safety Glasses	B

Section 2 – Hazardous Ingredients

NAME	CAS #	OSHA PEL	ACGIH TLV	WT %
Bisphenol-A Type Epoxy Resin	25068-38-6	NE	NE	100

* Exact Identity withheld as a trade secret.

Section 3 – Physical Data

Flash Point (PMMC): > 200°F
Boiling Point: > 400°F
Vapor Density: > Air
Evaporation Rate: Nil
% Volatile by Vol: 0
Specific Gravity: 1.16
Solubility in Water: Negligible
Vapor Pressure: < 1mm Hg
Appearance & Odor: Clear Liquid, Mild Epoxy Odor

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

Primary routes of exposure: 4 Dermal/Eye 4 Inhalation ___ Ingestion
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 aberrations 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 carcinogens.

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.

GC Electronics

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

Product Name: Epoxy Super Glue, Part A

MSDS Number: 106A
Revision Date: 2/16/04
Supersedes Date: 5/14/03

Section 6 - Reactivity Data

Stability: 4 Stable ___ Unstable
Hazardous Polymerization: Will not occur.
Conditions to Avoid: High temperatures, high humidity.
Materials to Avoid: STRONG OXIDIZING AGENTS, ACIDS

Section 7 – Spill or Leak Procedure

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 areas 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.
Protective Gloves: Use neoprene or other impervious gloves to prevent skin contact.
Eye Protection: Use safety glasses with side shields as minimum protection.
Other Protective Equipment: Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.
Hygienic Practices: Wash hands before eating, smoking or using toilet facilities. Do not smoke in any chemical handling and storage area. Food or beverages 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.

GC Electronics

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

Product Name: Epoxy Super Glue, Part A

MSDS Number: 106A
Revision Date: 2/16/04
Supersedes Date: 5/14/03

Section 10 – Regulatory Information

DOT Proper Shipping Name:	Not Regulated
Hazard Class or Division:	NA
Packing Group Number:	NA
Required Label:	None
UN Number:	NA
TSCA Status:	All components of this product are listed on, or exempted from the requirement to be listed on, the TSCA Inventory.

NA=Not Available na=not applicable NE=Not Established ND=Not Determined

mppcf=million parts/ft³ mg/M³=milligrams per cubic meter

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 this 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.**

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

Product Name: Epoxy Super Glue, Part B

MSDS Number: 106B
Revision Date: 2/16/04
Supersedes Date: 5/15/03

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: Adhesives
Product Name: **Epoxy Super Glue, Part B Hardener**
Part Number(s): **10-100**

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

Section 1 – Identification of Product

Chemical Composition: Mixture
Chemical Family: Polyamide Blend

HMIS RATINGS		Least	0
Health	3	Slight	1
Flammability	1	Moderate	2
Reactivity	0	High	3
Personal Protection	B	Extreme	4
		Gloves, Safety Glasses	B

Section 2 – Hazardous Ingredients

NAME	CAS #	OSHA PEL	WT %	ACGIH TLV
Polyamide Resin*	6841-23-1	NA	100	NA

* Exact Identity withheld as a trade secret.

Section 3 – Physical Data

Flash Point (PMMC): > 200°F
Boiling Point: Decomposes
Vapor Density: > Air
Evaporation Rate: Nil
% Volatile by Vol: 0
Specific Gravity: 0.98
Solubility in Water: Partial
Vapor Pressure: < 1mm Hg
Appearance & Odor: Amber Liquid, Mild Amine Odor

GC Electronics

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

Product Name: Epoxy Super Glue, Part B

MSDS Number: 106B
Revision Date: 2/16/04
Supersedes Date: 5/15/03

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

Effects of Overexposure
Acute: Skin; Primarily redness and irritation.
Chronic: May cause skin sensitization.
Acute: INHALATION; Symptoms may include burning sensation, coughing and shortness of breath.
Medical conditions prone to aggravation by exposure: Chronic diseases of the skin.
Primary routes of exposure: 4 Dermal/Eye 4 Inhalation ___ Ingestion

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 one or two glasses of milk or water. Do not induce vomiting. Give medical attention immediately. Never give anything by mouth to an unconscious person.

Section 6 - Reactivity Data

Stability: 4 Stable ___ Unstable
Hazardous Polymerization: Will not occur.
Conditions to Avoid: High temperatures, high humidity.
Materials to Avoid: STRONG OXIDIZING AGENTS, ACIDS, EPOXY RESINS IN UNCONTROLLED CONDITIONS.

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.

