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SAFETY DATA SHEET

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1) PRODUCT IDENTIFICATION

Product: EG8020 (Part B) **Product Type:** Epoxy Paste Adhesive
Product Description: Silver filled two component epoxy system--Part B.
Recommendation On Use: Die Attach and Substrate Attach **General Use:** Die Attach and Substrate Attach **Restriction On Use:** Intended for designated use only

2) HAZARD IDENTIFICATION

Signal Word: Warning



Precautionary Statement: For industrial use only
Physical Appearance: Silver Paste
Immediate Concerns: Corrosive- causes eye and skin burns.

Primary Route Entry: Inhalation, eye and skin contact.
Medical Conditions Aggravated: Pre-existing skin and eye disorders may be aggravated by exposure to this product. Pre-existing skin or lung allergies may increase the chance of developing increased allergy symptoms from exposure to this product.

Potential Health Effects:

Eyes: Can cause eye burns and damage
Skin: Adverse symptoms may include irritation, burns and redness
Ingestion: Harmful if swallowed. May cause nausea, vomiting, abdominal pain, decreased blood pressure, muscle weakness and spasms.
Inhalation: Low inhalation toxicity. May cause symptoms similar to those from ingestion.

Signs and Symptoms of Overexposure:

Eyes: Irritation, watering and redness can result in burns which can lead to blindness
Skin: Burns on the skin
Ingestion: Causes burning of mouth, throat and stomach with abdominal and chest pain, nausea, vomiting.
Inhalation: Respiratory tract irritation which can cause damage

Acute Toxicity: Can cause vomiting and irritation of the throat and stomach
Chronic Exposure: Repeated skin contact may cause a persistent irritation or dermatitis. Repeated inhalation may cause lung damage
Carcinogenicity: Not considered to be carcinogenic
Mutagenicity: Not considered to be mutagenic

Reproductive Effects: No information with effecting the reproductive system
Teratogenic Effects: Not Determined.
Target Organ Statement: No known effects.
Sensitization: May cause sensitization

3) COMPOSITION / INFORMATION ON INGREDIENTS

MATERIAL:	CAS NO	%
Silver	7440-22-4	70-85
Amine	9046-10-0	30-15

NOTE: * For powders only; in adhesive product, powders are bound in adhesive and values are not applicable.

4) FIRST AID MEASURES

First Aid Eye: Immediately flush eyes with eyewash solution or clean water holding the eyelids apart for 15 minutes. If symptoms develop, seek medical attention.
First Aid SKIN: Wash with soap and water. If symptoms develop, seek medical attention.
FIRST AID INHALE: Move to fresh air and keep at rest. Seek medical attention if symptoms develop.
First Aid Ingest: If swallowed, do not induce vomiting. Keep person resting and seek medical attention.
Physician Note: No specific treatment. Treat symptomatically.
Acute Symptoms:
Delayed Symptoms: Seek medical treatment

5) FIRE FIGHTING MEASURES

Flammable Class: 1 **Flame Propagation or Burning Rate of Solids:** Not Determined.
General Hazard: No specific fire or explosion hazard.
Extinguish Media: Sodium Bicarbonate and water
Hazardous Combustion Products: Carbon monoxide, oxides of nitrogen, formaldehyde, cyanide

Fire Fighting Procedures: Use self-contained breathing apparatus; decomposition and combustion products may be toxic.
Unsuitable Firefighting Equipment: Self-contained breathing apparatus should be available for fire fighters.

Suitable Firefighting Equipment:**Sensitive To Static Discharge:** no**Sensitive To Impact:** no**6) ACCIDENTAL RELEASE MEASURES****Small Spill:** Cover with sand and place in waste containers for disposal**Large Spill:** Contain spill and place in waste containers for disposal**Water Spill:** Keep from going into water systems**Land Spill:** Contain spill and place in waste containers for disposal**General Procedures:**

Use the necessary tools and protective equipment for the situation.

Release Notes:

Unknown

7) HANDLING AND STORAGE**Handling:**

Minimum feasible handling temperatures should be maintained. Eye wash and safety shower should be available nearby when this product is handled or used.

Storage:

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. If stored above 100 DEG F, a nitrogen atmosphere is recommended.

8) EXPOSURE CONTROLS / PERSONAL PROTECTION**PPE Eye And Face:** Avoid eye contact. Chemical type goggles with face shield must be worn. Do not wear contact lenses.**PPE Skin:** Protective clothing such as coveralls or lab coats must be worn. Launder or dry-clean when soiled. Gloves resistant to chemicals and petroleum distillates required. When handling large quantities, impervious suits, gloves and rubber boots must be worn.**Engineering Controls:** Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.**OSHA PEL****ACGIH TLV****EINECS****PPE Respiratory:** Not normally required. Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.0.01mg/m³ *0.1mg/m³ ***PPE Ventilation:** Local exhaust ventilation is recommended if generating vapor, dust or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

None Established

None Established

PPE Other: Personal protective equipment should be worn based on the task being performed**Work Hygienic Practices:** Local exhaust ventilation is recommended if generating vapor, dust or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.**9) PHYSICAL AND CHEMICAL PROPERTIES****Flashpoint And Method:** N/A**Upper Flammable Limits:** Not Determined**Autoignition Temperature:** Not Determined**Color:** Silver**Vapor Pressure:** Not Determined.**Vapor Density:** > 1**Boiling Point:** Not Determined**Melting Point:** > 400C**Evaporation Rate:** Not Determined.**Specific Gravity:** 4.0**Molecular Weight:** Not Determined.**Appearance:** Silver paste**Lower Flammable Limits:** Unknown**Physical State:** Paste**Odor:** Ammonia like odor**Odor Threshold:****PH:** Not Determined**Freezing Point:** Not Determined**Solubility In Water:** None**Density:** 4.0**Viscosity:** 240,000 cp**Coeff. Oil/Water:** Not Determined.**10) STABILITY AND REACTIVITY****Hazardous Polymerization:** May occur.

Chemical Stability: Stable under normal handling and storage condition

Polymerization: No

Conditions To Avoid: Excessive heat. Do not store near heat or flame

Hazardous Decomposition Products:

Thermal degradation could produce carbon monoxide, carbon dioxide and unidentified organic compounds.

Incompatibility Materials:

Acid base chemicals

11) TOXICOLOGICAL INFORMATION

Acute:

Eyes: This material reacts violently with acids. **Dermal LD50:** Not tested **Oral LD50:** .98 g/kg (rabbit) moderately toxic. **Inhalation LC50:** Not Determined

Eye Effects: May cause burning and watery eyes

Skin Effects: None

Carcinogenicity:

IARC: None **NTP:** None **OSHA:** 0.01mg/m³ *

Sensitization: (Buehler) negative - skin (guinea pig)

Reproductive Effects: No known effects

TARGET ORGANS:

Eyes: Irriting **Skin:** Irriting, may cause rash **Gastrointestinal:** Not Determined **Respiratory System:** Not Determined

Teratogenic Effects: (Buehler) negative - skin (guinea pig)

Mutagenicity: Not Determined

12) ECOLOGICAL INFORMATION

Ecotoxicity: No known significant effects or critical hazards

Mobility In Soil: No known significant effects or critical hazards

Persistence And Degradability: No known significant effects or critical hazards

Bioaccumulative Potential: Not Determined

13) DISPOSAL CONSIDERATIONS

Disposal Method: This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchase form. Under RCRA, it is the responsibility of the user of the product to determine at time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

For Large Spills: Contain spill and use proper container and protective equipment to clean up spill

Product Disposal: Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements

Empty Container: Disposal of empty container should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements

14) TRANSPORT INFORMATION

Road And Rail (ADR/RID)

Transport Information: Not Regulated **Kemler Number:** Not Regulated **Hazard Class:** Not Regulated

Air (CIAO/IATA)

Shipping Name: Not Regulated

Technical Name: Not Regulated

UN Number: N/A **Primary Hazard Class:** N/A

Packing Group: N/A **Label:** N/A

Vessel (IMO/IMDG)

Shipping Name: Not Regulated

Technical Name: Not Regulated

UN Shipping Name: N/A **Primary Hazard Class:** N/A

Packing Group: N/A **Label:** N/A.

15) REGULATORY INFORMATION

TCSA: This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory. **Skin:** Not Determined

Gastrointestinal: Not Determined

Respiratory System: Not Determined

16) OTHER INFORMATION

HMIS Health Rating (1-4): 3

HMIS Flammability Rating (1-4): 1

HMIS Physical Hazard Rating (1-4): 0

Long Term Health Affects (Y/N): N

Note: All ingredients in this product are on the Toxic Substances Control Act (TSCA) inventory or are not required to be listed and are compliant with EC regulation 1907-2006 Art. 31 Annex II.
No ingredient in this product is known to be carcinogenic.
Ingredients listed on the New Jersey "RIGHT TO KNOW" substance list: Silver CAS#7440-22-4 Substance#1669
This product is compliant to RoHS & REACH and does not contain any Substances of Very High Concern

Section X:

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