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1) PRODUCT IDENTIFICATION

Product: EG8050-E (Mixed) **Product Type:** Epoxy paste adhesive
Product Description: Silver filled two component epoxy system.
Recommendation On Use: **General Use:** Die Attach and Substrate Attach **Restriction On Use:** Intended for designated use only.

2) HAZARD IDENTIFICATION

WHMIS Classification:
GHS Classification:
Signal Word: Danger



GHS Label elements:
Precautionary Statement: For industrial use only **Physical Appearance:** Paste Adhesive **Immediate Concerns:** This product may cause a rash on the skin.
Primary Route Entry: Skin **Medical Conditions Aggravated:** Skin contact may aggravate an existing dermatitis (skin condition).

Potential Health Effects:
Eyes: Minor transient irritation **Skin:** Skin absorption hazard **Ingestion:** Harmful if swallowed. May cause nausea, vomiting, abdominal pain, decreased blood pressure, muscle weakness and spasms. **Inhalation:** No known significant effects or critical hazards

Signs and Symptoms of Overexposure:
Eyes: Adverse symptoms may include irritation, watering and redness **Skin:** Skin sensitization may be evidenced by rashes, especially hives **Ingestion:** Can cause burning of mouth, throat and stomach with abdominal and chest pain, nausea and vomiting. **Inhalation:** May cause some irritation

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 classifiable as a carcinogen **Mutagenicity:** Not considered to be mutagenic

Reproductive Effects: Not known to cause any reproductive effects **Teratogenic Effects:** No known significant effects or critical hazards **Target Organ Stament:** Skin **Sensitization:**

3) COMPOSITION / INFORMATION ON INGREDIENTS

MATERIAL:	CAS NO	%
Silver	7440-22-4	75-85
Amine Admixture	Proprietary	25-15

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 eye wash solution or clean water holding the eyelids apart for 15 minutes. If symptoms develop, seek medical attention. **First Aid Skin:** Flush skin with water followed by washing with soap and water. If irritation occurs, get medical attention. **First Aid Inhale:** Remove from source
First Aid Ingest: If swallowed, do not induce vomiting. Keep person resting and seek medical attention. **Physician Note:** **Acute Symptoms:** Seek medical treatment
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: Use water fog, foam, dry chemical or CO2.
Hazardous Combustion Products: Decomposition and combustion products may be toxic
Fire Fighting Procedures: Use self-contained breathing apparatus; decomposition and combustion products may be toxic. **Unsuitable Firefighting Equipment:** Self-contained breathing apparatus and full protective clothing should be worn. Avoid inhalation of material or combustion by-products.

Suitable Firefighting Equipment: Not determined

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: Absorb with sand or other non-combustible material.

Water Spill: Contain spill and use correct equipment to remove from water

Land Spill: Contain spill and place in waste containers for proper disposal

General Procedures:

Use the necessary tools and protective equipment for the situation.

Release Notes:

Wear safety goggles & latex gloves to prevent contact with eyes and skin.

7) HANDLING AND STORAGE

Handling:

Wear protective gears - safety glasses or goggles, gloves, and lab-coat.
Handle chemicals in a well ventilated hood. Avoid breathing the vapor.

Storage:

-40°C

8) EXPOSURE CONTROLS / PERSONAL PROTECTION

PPE Eye and Face: Use protective glasses or goggles.

PPE Skin: Latex Gloves and Lab Coat.

Engineering Controls:

PPE Respiratory: Not normally required.

PPE Ventilation: Use well ventilated hood.

PPE Other: Personal protective equipment should be worn based on the task being performed

OSHA PEL

0.01mg/m³ *

ACGIH TLV

0.1mg/m³ *

EINECS

None Established

None Established

Work Hygienic Practices: Use well ventilated hood.

9) PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint and Method: Not Determined

Upper Flammable Limits: Not Determined

Autoignition Temperature: Not Determined

Color: Grey

Vapor Pressure: Not Applicable

Vapor Density: Not Applicable

Boiling Point: Not Applicable

Melting Point: Not Determined

Evaporation Rate: None

Specific Gravity: 3.3

Molecular Weight: Not Determined.

Appearance: Grey paste adhesive

Lower Flammable Limits: Not Determined

Physical State: Paste

Odor: Slight chemical odor

Odor Threshold: Not Determined

pH: Not Tested

Freezing Point: -45°C

Solubility in Water: None

Density: 3.3

Viscosity: 185,000 cp

Coeff. Oil/Water: Not Determined.

10) STABILITY AND REACTIVITY

Hazardous Polymerization: Hazardous polymerization may occur.

Chemical Stability: Stable under normal handling and storage condition

Polymerization: May occur

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

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced

Incompatibility Materials:

There is no danger when product is cured.

11) TOXICOLOGICAL INFORMATION

Acute:

Eyes: **Dermal LD50:** Slightly irritating **Oral LD50:** Not Determined **Inhalation LC50:** Not Determined

Eye Effects: May cause irritation to the eyes

Skin Effects: Minor irritation

Carcinogenicity:

IARC: No ingredients listed as human carcinogens. **NTP:** No ingredients listed as human carcinogens. **OSHA:** Consistent with (29 CFR 1910 . 1200).

Sensitization: May cause sensitization by skin contact

Reproductive Effects: No known significant effects or critical hazards

TARGET ORGANS:

Eyes: Slight Irritant **Skin:** Slight Irritant **Gastrointestinal:** Not Determined **Respiratory System:** Not Determined

Teratogenic Effects: May cause sensitization by skin contact

Mutagenicity: Not Determined

12) ECOLOGICAL INFORMATION

Ecotoxicity: Do not discharge into sewer or waterways

Mobility in Soil: Unknown

Persistence and Degradability: Avoid runoff into storm sewers and ditches that lead to waterways. Water runoff can cause environmental damage.

Bioaccumulative Potential: Unknown

13) DISPOSAL CONSIDERATIONS

Disposal Method: Cure at 150C for 2 hrs and dispose of according to the environmental rules and regulations at the location.

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

Product Disposal: Dispose in accordance with all applicable regulations.

Empty Container: 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

14) TRANSPORT INFORMATION

Road and Rail (ADR/RID)

Transport Information:

Not Regulated

Kemler Number:

Not Regulated

Hazard Class:

Not Hazardous by D.O.T. Regulations

Air (CIAO/IATA)

Shipping Name: Not Regulated

Technical Name: Not Regulated

UN Number: N/A

Primary Hazard Class: No known hazards

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: No known hazards

Packing Group: N/A

Label: N/A

15) REGULATORY INFORMATION

TCSA: No Data

Skin: No Data

Gastrointestinal: No Data

Respiratory System: No Data

16) OTHER INFORMATION

HMIS Health Rating (1-4): 2

HMIS Flammability Rating (1-4): 1

HMIS Physical Hazard Rating (1-4): 1

Long Term Health Effects (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.
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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