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SAFETY DATA SHEET

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1) PRODUCT IDENTIFICATION

Product: EG8020 (PART A) **Product Type:** Epoxy paste adhesive
Product Description: Silver filled two component epoxy system.
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: Paste (silver color)
Immediate Concerns: Avoid contact with skin and eyes.
Primary Route Entry: Eye and skin
Medical Conditions Aggravated: Skin contact may aggravate an existing dermatitis (skin condition).

Potential Health Effects:

Eyes: Slight Irritant
Skin: Skin absorption hazard
Ingestion: Not a route of exposure under normal use
Inhalation: No known significant effects or critical hazards

Signs and Symptoms of Overexposure:

Eyes: Adverse symptoms may include irritation, watering and redness
Skin: Irritant
Ingestion: None under normal use
Inhalation: None under normal use
Acute Toxicity: None under normal use
Chronic Exposure: Seek medical attention if any symptoms occur.
Carinognnicity: Not classifiable as a carcinogen
Mutagenicity: Not considered to be mutagenic

Reproductive Effects: Not known to cause any reproductive effects
Teratogenic Effects: None under normal use
Target Organ Stament: Skin and eyes
Sensitization:

3) COMPOSITION / INFORMATION ON INGREDINTS

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 wash with water for 15 minutes.
First Aid SKIN: Wash with soap and water. If symptoms develop, seek medical attention.
FIRST AID INHALE: Remove from source
First Aid Ingest: None under normal use
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 Ssolids:** Not Determined.
General Hazard: No specific fire or explosion hazard.
Extiguish Media: Carbon dioxide, foam, or dry chemical. Water spray
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 proper disposal
Large Spill: Contain spill and place in waste containers for proper disposal

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 protective gears to prevent contact with skin and eyes. Use non-sparking tools.

7) HANDLING AND STORAGE

Handling:

Use latex gloves and safety glasses

Storage:

-40C

8) EXPOSURE CONTROLS / PERSONAL PROTECTION

PPE Eye And Face: Use latex gloves and goggles

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. Whwn handling large quantities, impervious suits, gloves and rubber boots must be worn.

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: Silver

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: Silver epoxy adhesive

Lower Flammable Limits: Not Determined

Physical State: Paste

Odor: Slight chemical odor

Odor Threshold: Not Determined

PH: Not tested

Freezing Point: Not Determined

Solubility In Water: None

Density: 3.5

Viscosity: 150,000 cp

Coeff. Oil/Water: Not tested

10) STABILITY AND REACTIVITY

Hazardous Polymerization: Stable under normal conditions of storage and use

Chemical Stability: Stable at normal temperatures and pressure.

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:** Not Determined **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:** 0.01mg/m³ *

Sensitization: May cause sensitization by skin contact

Reproductive Effects: No known effects

TARGET ORGANS:

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

Teratogenic Effects: May cause sensitization by skin contact

Mutagenicity: None

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: Not Determined

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: 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. Flush with water to remove any trace residue.

Product Disposal: Dispose in accordance with federal, state and local 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: Not Determined

Skin: Not determined

Gastrointestinal: Not Determined

Respiratory System: Not Determined

16) OTHER INFORMATION

HMIS Health Rating (1-4): 1

HMIS Flammability Rating (1-4): 1

HMIS Physical Hazard Rating (1-4): 0

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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