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1) PRODUCT IDENTIFICATION

Product: ME8456 **Product Type:** Epoxy Paste Adhesive
Product Description: Silver loaded single component epoxy adhesive paste
Recommendation On Use: Use with electrical components and assemblies
General Use: Component and substrate attach
Restriction On Use: N/A

2) HAZARD IDENTIFICATION

WHMIS Classification: D2B Toxic material causing other effects. Slight skin irritant.
GHS Classification: Skin irritation (Category 2)
Signal Word: Danger



GHS Label elements: H315 Skin irritation.

Precautionary Statement: For industrial use only
Physical Appearance: Silver Paste
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: Can cause eye burns and damage
Skin: Adverse symptoms may include irritation, burns and redness
Ingestion: Based on product testing, this product is considered to have a low order of acute oral toxicity
Inhalation: Can cause irritation in throat and lungs

Signs and Symptoms of Overexposure:

Eyes: Irritation, watering and redness can result in burns which can lead to blindness
Skin: Skin sensitization may be evidenced by rashes, especially hives
Ingestion: Causes burning of mouth, throat and stomach with abdominal and chest pain ,nausea, vomiting
Inhalation: May cause breathing to become difficult

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: No information with effecting the reproductive system
Teratogenic Effects: Not Determined.
Target Organ Stament: Not Determined
Sensitization: May cause sensitization

3) COMPOSITION / INFORMATION ON INGREDIENTS

MATERIAL:	CAS NO	%
Silver	7440-22-4	65-85
Epoxy Admixture	25068-38-6	30-13
Solvent	872-50-4	05-02

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: Flush skin with water followed by washing with soap and water. If irritation occurs, get medical attention.
First Aid Inhale: Move victim to fresh air and provide oxygen if breathing is difficult. Seek medical attention.

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: Seek medical treatment

Delayed Symptoms: Seek medical treatment

5) FIRE FIGHTING MEASURES

Flammable Class: 2 **Flame Propagation or Burning Rate of Solids:** Not Determined.

General Hazard: Toxic fumes may be evolved when this material is involved in a fire.

Extinguish Media: Sodium Bicarbonate and water

Hazardous Combustion Products: Carbon monoxide, oxides of nitogen, formaldehyde, cyanide

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

evolved.

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: 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

Release Notes:

Not Determined

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°F, a nitrogen atmosphere is recommended.

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 when heating materials

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

OSHA PEL

0.01 mg/m³ *

ACGIH TLV

0.1 mg/m³ *

EINECS

None Established

None Established

None Established

None Established

Work Hygienic Practices: Use well ventilated hood when heating materials

9) PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint and Method: 215°C

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: >350°C

Evaporation Rate: <2

Specific Gravity: 3.5

Molecular Weight: Not Determined.

Appearance: Silver paste

Lower Flammable Limits: Not Determined

Physical State: Paste

Odor: Slight chemical odor

Odor Threshold:

pH: Not Determined

Freezing Point: -18°C

Solubility in Water: None

Density: 3.5

Viscosity: 129,000 cp

Coeff. Oil/Water: Not Determined.

10) STABILITY AND REACTIVITY

Hazardous Polymerization: May occur

Chemical Stability: Stable under normal handling and storage condition

Polymerization: May occur

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:

Acids, metals, oxidizing & combustible materials.

11) TOXICOLOGICAL INFORMATION

Acute:

Eyes: Stable

Dermal LD50: Not Determined

Oral LD50: Not Determined

Inhalation LC50: Not Determined

Eye Effects: May cause burning and watery eyes

Skin Effects: Not Determined

Carcinogenicity:

IARC: No ingredients listed as human carcinogens.

NTP: No ingredients listed as human

OSHA: Consistent with (29 CFR 1910 . 1200).

carcinogens.

Sensitization: May cause sensitization by skin contact

Reproductive Effects: Not Determined

TARGET ORGANS:

Eyes: Not determined **Skin:** Not determined **Gastrointestinal:** Not Determined **Respiratory System:** Not Determined

Teratogenic Effects: May cause sensitization by skin contact

Mutagenicity:

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 150°C and dispose of according to rules and regulations

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): 1

HMIS Flammability Rating (1-4): 2

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.

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: HMIS Rating: Health-1 Flammability-2, Reactivity-,0, Protective Equipment-D

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