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**1) PRODUCT IDENTIFICATION**

**Product:** ME7155 **Product Type:** Epoxy paste adhesive  
**Product Description:** Stress free and solvent free thermally conductive reworkable epoxy adhesive.  
**Recommendation On Use:** High Power Die Attach Substrate **General Use:** Die and substrate attach **Restriction On Use:** Intended for designated use only

**2) HAZARD IDENTIFICATION**

**WHMIS Classification:**  
**GHS Classification:**  
**Signal Word:** Warning



**GHS Label elements:**  
**Precautionary Statement:** For industrial use only **Physical Appearance:** Silver Paste **Immediate Concerns:** Avoid contact with skin and eyes..  
**Primary Route Entry:** Skin **Medical Conditions Aggravated:** Not Determined

**Potential Health Effects:**  
**Eyes:** Irritant **Skin:** Adverse symptoms may include irritation and redness **Ingestion:** Aspiration hazard if swallowed **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:** 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 Determined  
**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	%
Aluminum Oxide	1344-28-1	65-80
Epoxy Admixture	25085-99-8	30-10
Dimer acid	68783-41-5	05-10

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:** Do not induce vomiting. No treatment is necessary unless large quantities of product are ingested. However, get medical advice. **Physician Note:** No specific treatment. Treat symptomatically. **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:** 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 **Unsuitable Firefighting Equipment:** Self-contained breathing apparatus should be available for fire fighters.

products may be toxic.

**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 for the situation.

### Release Notes:

Not Determined

## 7) HANDLING AND STORAGE

### Handling:

Use latex gloves and safety glasses. Use at ambient temperature

### Storage:

Store at -40°C to maintain shelf life

## 8) EXPOSURE CONTROLS / PERSONAL PROTECTION

**PPE Eye and Face:** Personal protective equipment should be worn based on the task being performed

**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 respirator.

0.01 mg/m<sup>3</sup> \*

0.1 mg/m<sup>3</sup> \*

**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

None Established

None Established

**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:** Not Determined

**Lower Flammable Limits** Not Determined

**Upper Flammable Limits** Not Determined

**Physical State:** Paste

**Autoignition Temperature:** Not Determined

**Odor:** Slight chemical odor

**Color:** Silver

**Odor Threshold:**

**Vapor Pressure:** Not Determined.

**pH:** Not Determined

**Vapor Density:** Not Determined

**Boiling Point:** Not Determined

**Freezing Point:** -18°C

**Melting Point:** Not determined

**Solubility in Water:** None

**Evaporation Rate:** Not Determined.

**Density:** 3.5

**Specific Gravity:** 3.5

**Viscosity:** 275,000 cp

**Molecular Weight:** Not Determined.

**Coeff. Oil/Water:** Not Determined.

**Appearance:** Viscous fluid

## 10) STABILITY AND REACTIVITY

**Hazardous Polymerization:** Will not 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:**

There is no danger when product is cured.

**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:** Not Determined      **NTP:** Not Determined      **OSHA:** None**Sensitization:** May cause sensitization by skin contact**Reproductive Effects:** Not tested**TARGET ORGANS:****Eyes:** Irriting      **Skin:** Irriting, may cause rash      **Gastrointestinal:** Not Determined      **Respiratory System** Not Determined**Teratogenic Effects:** May cause sensitization by skin contact**Mutagenicity:** Not Determined**12) ECOLOGICAL INFORMATION****Ecotoxicity:** No known significant effects or critical hazards**Mobility in Soil:** Not Determined**Persistence and Degradability:** Not Determined**Bioaccumulative Potential:** Not Determined**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:** Unknown      **Hazard Class:** Irritant**Air (CIAO/IATA)****Shipping Name:** Not Regulated**Technical Name:** N.A.**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:** N.A.**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):** 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**Section X:** HMIS Hazard ID: Health 1 Flammability 1 Reactivity 0

