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FOR CHEMICAL EMERGENCY ONLY:

**US & CANADA:** (800) 424-9300 **Int'l & Wash. DC:** (703) 527-3887

**1. PRODUCT**

**IDENTIFICATION:**

**Product ID** 15212, 15359 - Metal Epoxy - Resin

**2. COMPOSITION/INGREDIENTS:**

CHEMICAL NAME	CAS #	OSHA PEL	ACGIH TLV	Other Limits	Wt. %
Epoxy resins	proprietary	NE	NE	NE	

**3. HAZARDS IDENTIFICATION:**

**Emergency Overview**

	HMIS	NFPA	
Health	2	2	Clear thick liquid with epoxy odor. May be irritating to eyes & skin with direct contact. May be a skin sensitizer. Contact with product at elevated temperatures may cause thermal burns. KEEP OUT OF REACH OF CHILDREN.
Flammability	1	1	
Reactivity	0	0	
Physical Hazard	0	0	

<b>Toxicity</b>	Low order of oral toxicity noted. Unlikely to be an inhalation hazard due to low volatility.			
<b>Primary routes of entry</b>	<b>Inhalation</b>	<b>Skin</b>	<b>Eyes</b>	<b>Ingestion</b>
		X	X	
<b>Signs/Symptoms of Exposure</b>	<b>Inhalation</b>	Slight irritation with poor ventilation.		
	<b>Skin</b>	Irritating to skin. May cause allergic skin reaction with prolonged contact.		
	<b>Eyes</b>	Weeping, redness.		
	<b>Ingestion</b>	Irritating to mucous membranes.		

**4. FIRST AID MEASURES:**

<b>Inhalation</b>	Remove to fresh air and provide oxygen if breathing is difficult. Get medical attention.
<b>Skin</b>	Remove contaminated clothing and wash with soap & water. Get medical attention if symptoms persist (contaminated leather articles i.e. shoes should be disposed of as contaminated waste). NOTE: hot product burns require immediate medical attention.
<b>Eyes</b>	Flush eyes with large amounts of water for 15 minutes while holding eyes open. Get medical attention immediately.
<b>Ingestion</b>	Do not induce vomiting. In general, no treatment unless a large amount is ingested, however, get medical advice. NOTE TO PHYSICIAN: Emesis induction is normally not necessary in high viscosity, low volatility products, e.g. neat epoxy resins.

**5. FIRE FIGHTING MEASURES: FLASH POINT: >200 °F/>93 °C**

**LEL:** NE **UEL:** NE

<b>Extinguishing Media</b>	Water fog, foam, dry chemical or carbon dioxide.
<b>Special Fire Fighting Procedures</b>	Material will not burn unless preheated. Do not enter confined fire space without full bunker gear (helmet/face shield, bunker coat, gloves & rubber boots). Use positive pressure NIOSH-approved self-contained breathing apparatus. Cool fire-exposed containers with water.
<b>Hazardous Products of Combustion</b>	Oxides of carbon and nitrogen.
<b>Unusual Fire/Explosion Hazards</b>	DO NOT BREATHE FUMES. Unidentified fumes & vapors may be toxic.

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**6. ACCIDENTAL RELEASE MEASURES:**

<b>Spill Procedures</b>	Use cautious judgment when cleaning up large spills. Respirator & protective equipment as appropriate. Dike & contain material. Soak up residue with absorbent (clay, sand) materials and dispose of properly.
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**7. HANDLING AND STORAGE:**

<b>Handling</b>	Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing (dust, vapor, mist, gas). Keep container closed when not in use.
<b>Storage</b>	Store in a cool, dry place away from open flames, high temperatures and incompatible materials. Protect from sunlight. Ambient room temperature storage (70F/21C).

**8. EXPOSURE CONTROL/PERSONAL PROTECTION:**

EYES	SKIN	VENTILATION	OTHER
Safety glasses/goggles with side shields	Chemical resistant gloves	Fresh air source or mechanical, as needed.	None known

**9. PHYSICAL & CHEMICAL PROPERTIES:**

<b>Appearance:</b> Clear thick liquid	<b>Odor:</b> Typical epoxy resin	<b>Boiling Point:</b> NE
<b>Specific Gravity (H<sub>2</sub>O=1):</b> 1.15	<b>Solubility in Water:</b> Insoluble	<b>Melting Point:</b> NE
<b>Vapor Density (Air=1):</b> NE	<b>Vapor Pressure (mm Hg):</b> NE	<b>Evaporation Rate (Butyl acetate=1):</b> NE
<b>Volatile Organic Compounds-VOC (less exempt):</b> 0 g/L		

**10. STABILITY & REACTIVITY:**

<b>Stable:</b> <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<b>Hazardous Polymerization:</b> <input type="checkbox"/> may occur <input checked="" type="checkbox"/> may not occur
<b>Incompatible materials:</b>	Strong oxidizing agents, acids and bases.
<b>Conditions to avoid:</b>	Keep away from open flames & high temperatures. Do not store with incompatible materials.
<b>Hazardous decomposition products:</b>	Oxides of carbon and nitrogen.

**11. TOXICOLOGICAL INFORMATION:** Low order of oral toxicity. Unlikely to be an inhalation hazard due to low volatility.

**12. ECOLOGICAL INFORMATION:** May cause long-term adverse effects in the aquatic environment. Do not flush to sewer.

**13. DISPOSAL CONSIDERATIONS:**

Cure by mixing with equal portion of paired component for non-hazardous solid waste disposal. Do not empty into drains, dispose of unreacted material and container at hazardous or special waste collection point.

**14. SHIPPING:**

<b>DOT</b>	Not restricted
<b>IATA</b>	Not restricted
<b>IMDG</b>	Not restricted

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**15. REGULATORY INFORMATION:**

**TSCA Status:** All ingredients in this product are listed, or are exempt, for the TSCA Inventory list.

**California Proposition 65:** No California Proposition 65 chemicals are known to be present, or are intentionally added in the manufacture of this product.

**Other:** None known.

**16. OTHER INFORMATION:**

**Abbreviations used in this document:**

**NA** = not applicable

**NE** = not established

**Preparation date:** 12/05/13

**Revision number:** Rev 10

**Prepared by:** Mary Robles, Regulatory Affairs Manager

The data contained herein is based upon information that Pacer Technology believes to be reliable. Users of this product have the responsibility to determine the suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

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**1. PRODUCT IDENTIFICATION:** **Product ID** 15212, 15359 - Metal Epoxy - Hardener

**3. COMPOSITION/INGREDIENTS:**

CHEMICAL NAME	CAS #	OSHA PEL	ACGIH TLV	Other Limits	Wt. %
Proprietary Mercaptan Polymer Amine	Proprietary Proprietary	NE	NE	NE	85-95 5-15

**3. HAZARDS IDENTIFICATION: Emergency Overview**

	HMIS	NFPA	
Health	2	2	Light gray thick liquid with mild sulfur odor. Irritating to eyes, respiratory system and skin. Contact with product at elevated temperatures may cause thermal burns. KEEP OUT OF REACH OF CHILDREN.
Flammability	1	1	
Reactivity	0	0	
Physical Hazard			

<b>Toxicity</b>	May cause allergic skin reaction with prolonged contact. May aggravate pre-existing skin/eye/lung conditions. May be harmful if swallowed.			
<b>Primary routes of entry</b>	<b>Inhalation</b>	<b>Skin</b>	<b>Eyes</b>	<b>Ingestion</b>
	X	X	X	
<b>Signs/Symptoms of Exposure</b>	<b>Inhalation</b>	Slight irritation with poor ventilation.		
	<b>Skin</b>	Irritating to skin. May cause allergic skin reaction with prolonged contact.		
	<b>Eyes</b>	Weeping, redness.		
	<b>Ingestion</b>	Irritation of mucous membranes.		

**4. FIRST AID MEASURES:**

<b>Inhalation</b>	Remove to fresh air and provide oxygen if breathing is difficult. Get medical attention.
<b>Skin</b>	Remove contaminated clothing and wash skin with soap & water. Get medical attention if symptoms persist (contaminated leather articles i.e. shoes should be disposed of as contaminated waste). NOTE: hot product burns require immediate medical attention.
<b>Eyes</b>	Flush eyes with large amounts of water for 15 minutes while holding eyes open. Get medical attention immediately.
<b>Ingestion</b>	Do not induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**5. FIRE FIGHTING MEASURES: FLASH POINT: 300 °F/149 °C, (PMCC) LEL: NE UEL: NE**

<b>Extinguishing Media</b>	Water fog, foam, dry chemical or carbon dioxide.
<b>Special Fire Fighting Procedures</b>	Do not enter confined fire space without full bunker gear (helmet/face shield, bunker coat, gloves & rubber boots). Use positive pressure NIOSH-approved self-contained breathing apparatus. Cool fire-exposed containers with water.
<b>Hazardous Products of Combustion</b>	Carbon monoxide, carbon dioxide, hydrogen sulfide and oxides of sulfur.
<b>Unusual Fire/Explosion Hazards</b>	DO NOT BREATHE FUMES. Unidentified fumes & vapors may be toxic.

<b>Product ID</b>	<b>15212, 15359 - Metal Epoxy - Hardener</b>
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**6. ACCIDENTAL RELEASE MEASURES:**

<b>Spill Procedures</b>	Use cautious judgment when cleaning up large spills. Respirator & protective equipment as appropriate. Dike & contain material. Soak up residue with absorbent (clay, sand) materials and dispose of properly.
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**7. HANDLING AND STORAGE:**

<b>Handling</b>	Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing (dust, vapor, mist, gas). Keep container closed when not in use. Do not take internally.
<b>Storage</b>	Store in a cool, dry place away from open flames, high temperatures and incompatible materials. Protect from sunlight. Ambient room temperature storage (70F/21C).

**8. EXPOSURE CONTROL/PERSONAL PROTECTION:**

<b>EYES</b>	<b>SKIN</b>	<b>VENTILATION</b>	<b>OTHER</b>
Safety glasses/goggles with side shields	Chemical resistant gloves	Fresh air source or mechanical, as needed.	None known

**9. PHYSICAL & CHEMICAL PROPERTIES:**

<b>Appearance:</b> Light gray thick liquid	<b>Odor:</b> Mild sulfur (rotten eggs)	<b>Boiling Point:</b> NE
<b>Specific Gravity (H<sub>2</sub>O=1):</b> 1.05	<b>Solubility in Water:</b> Insoluble.	<b>Melting Point:</b> NE
<b>Vapor Density (Air=1):</b> NE	<b>Vapor Pressure (mm Hg):</b> NE	<b>Evaporation Rate (Butyl acetate=1):</b> NE
<b>Volatile Organic Compounds-VOC (less exempt):</b> 0 g/L		

**10. STABILITY & REACTIVITY:**

<b>Stable:</b> <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<b>Hazardous Polymerization:</b> <input type="checkbox"/> may occur <input checked="" type="checkbox"/> may not occur
<b>Incompatible materials:</b>	Strong oxidants, amines especially when hot.
<b>Conditions to avoid:</b>	Keep away from open flames & high temperatures. Do not store near large masses of epoxy resins.
<b>Hazardous decomposition products:</b>	Carbon monoxide, carbon dioxide, hydrogen sulfide and oxides of sulfur.

**15. TOXICOLOGICAL INFORMATION:** May cause allergic skin reaction with prolonged contact. May aggravate pre-existing skin/eye/lung conditions. May be harmful if swallowed.

**16. ECOLOGICAL INFORMATION:** Do not flush to sewer.

**17. DISPOSAL CONSIDERATIONS:**

Cure by mixing with equal portion of paired component for non-hazardous solid waste disposal. Do not empty into drains, dispose of unreacted material and container at hazardous or special waste collection point.

**18. SHIPPING:**

<b>DOT</b>	Not restricted
<b>IATA</b>	Not restricted
<b>IMDG</b>	Not restricted

**Product ID** 15212, 15359 - Metal Epoxy - Hardener

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**17. REGULATORY INFORMATION:**

**TSCA Status:** All ingredients in this product are listed, or are exempt, for the TSCA Inventory list.

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