

Material Safety Data Sheet

Mia Poxy 100

Date of Preparation: May 14, 2009

Section 1 Chemical Product and Company Identification

Product/Chemical Name: Mia Poxy 100
Chemical Family: Epoxy Resin
CAS Number: N/A
Other Designations: N/A
General Use: N/A
Manufacturer: Freeman Manufacturing and Supply Company, 1101 Moore Road, Avon, OH 44011
Phone (440) 934-1902, FAX (440) 934-7200, Hours of Operation 8-5,
Emergency phone number 1-800-424-9300

HMIS	
H	2
F	1
R	0
PPE Sec.8.	

Section 2 Composition/Information on Ingredients

Ingredient Name	CAS Number
Bisphenol A Epoxy Resin	25068-38-6
Glycidyl Ether diluent	3101-60-8
Alkyl (C12 and C 14) Glycidyl Ethers	68609-97-2

Ingredient	OSHA		ACGIH	
	PEL	STEL	TLV	STEL
Bisphenol A Epoxy Resin	none estab.	none estab.	none estab.	none estab.
Glycidyl Ether diluent	none estab.	none estab.	none estab.	none estab.
Alkyl (C12 and C 14) Glycidyl Ethers	none estab.	none estab.	none estab.	none estab.

Section 3 Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Causes eye, and skin irritation. May cause skin sensitization.

Potential Health Effects

Primary Entry Routes: Skin; Inhalation from heated vapors.

Acute Effects:

Inhalation: Irritates the respiratory tract

Eye: Causes irritation

Skin: Causes irritation

Ingestion: Swallowing can cause abdominal irritation, nausea, vomiting, and diarrhea.

Medical Conditions Aggravated by Long-Term Exposure: Skin and eye conditions.

Chronic Effects: No known chronic effects associated with this material.

Carcinogenicity: IARC, NTP, and OSHA do not list any components as carcinogens.

Section 4 First Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen and/or artificial respiration.

Eye Contact: Flush with plenty of water for 15 minutes and get medical attention.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing and launder before reuse.

Destroy contaminated shoes.

Mia Poxy 100

Ingestion: Do not induce vomiting. Get medical attention.

Section 5 Fire Fighting Measures

Flash Point: > 200°F (>93 °C)

Flash Point Method: estimated

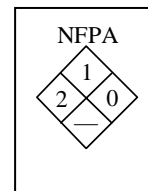
LEL: Not established

UEL: Not established

Extinguishing Media: Foam, water, CO₂, or dry chemical

Fire-Fighting Equipment: Use self-contained breathing apparatus.

Fire and Explosion Hazards: Decomposition and combustion products may be toxic.



Section 6 Accidental Release Measures

Spill /Leak Procedures: Stop spill at source. Dike area and contain. Clean up remainder with absorbent materials such as sand or vermiculite. Mop up and dispose of.

Section 7 Handling and Storage

Handling & Storage: Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin. Wear safety goggles or face shield. Wear gloves, apron and footwear impervious to this material. Wash clothing before reuse. Store at ambient temperatures. . Keep container tightly closed and upright when not in use to prevent leakage.

Section 8 Exposure Controls/Personal Protection

Ventilation: Local exhaust recommended. General mechanical is acceptable. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2).

Respiratory Protection: Use a NIOSH approved respirator when vapor/mist exposure is likely.

Eye Protection: Wear splash-proof chemical goggles.

Skin Protection: Wear impermeable gloves.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 Physical and Chemical Properties

Appearance and Odor: Faint blue liquid

Vapor Pressure: Not determined

Vapor Density (Air=1): Not determined

VOC Content: 0 lbs/gal

Specific Gravity (H₂O=1, at 4 °C): 1.15

Water Solubility: Slight

Boiling Point: Not determined

% Volatile: Not determined

Evaporation Rate: Not determined

pH: Not determined

Section 10 Stability and Reactivity

Stability: Stable.

Conditions to Avoid: Excessive heat for prolonged period.

Chemical Incompatibilities: Strong oxidizing agents, acids and bases

Hazardous Decomposition Products: Combustion may form toxic materials, such as carbon dioxide, carbon monoxide.

Hazardous Polymerization: Will not occur. Avoid inadvertent mixture with epoxy curing agents.

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Section 11 Toxicological Information

Acute Inhalation Exposure Effects: Respiratory irritant.
Skin Irritation: Irritant.
Eye Irritation: Irritant.
Sensitization: Possible in susceptible individuals.
Carcinogenicity: IARC, NTP, and OSHA do not list any components as carcinogens.

Section 12 Ecological Information

No Known evidence of adverse effects from available information

Section 13 Disposal Considerations

Disposal: Dispose of in safety containers as a solid water material. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations

Section 14 Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Resin Compounds, N.O. I

Section 15 Regulatory Information

US Federal Regulations:

OSHA (Occupational Safety and Health Act): This Material Safety Data Sheet has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

RCRA (Resource Conservation and Recovery Act): Not a hazardous waste under RCRA (40 CFR 261).

SARA 311/312 Codes: Acute Health, Fire.

SARA Toxic Chemical (40 CFR 372.65): This product contains the following toxic chemical subject to the reporting requirements of Section 313 of SARA Title III of 1986 and of 40 CFR 372.

None

TSCA Inventory Status: All ingredients listed on TSCA inventory requirements.

State Regulations:

CA Proposition: No component listed

Section 16 Other Information

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Mia Poxy 100

for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

Material Safety Data Sheet

Mia Hardener 95

Date of Preparation: May 14, 2009

Section 1 Chemical Product and Company Identification

Product/Chemical Name: Mia Hardener 95
Chemical Family: Amine
CAS Number: N/A
Other Designations: N/A
General Use: N/A
Manufacturer: Freeman Manufacturing and Supply Company, 1101 Moore Road, Avon, OH 44011
Phone (440) 934-1902, FAX (440) 934-7200, Hours of Operation 8-5,
Emergency phone number 1-800-424-9300

HMIS	
H	3
F	1
R	0
PPE Sec.8.	

Section 2 Composition/Information on Ingredients

Ingredient Name	CAS Number
Triethylenetetramine (TETA)	112-24-3
TETA Adduct	26950-63-0

Ingredient	OSHA		ACGIH	
	PEL	STEL	TLV	STEL
Triethylenetetramine (TETA)	none estab.	none estab.	none estab.	none estab.
TETA Adduct	none estab.	none estab.	none estab.	none estab.

Section 3 Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Severe eye irritation, possible eye burns, skin irritation, skin sensitization

Potential Health Effects

Primary Entry Routes: Skin; Inhalation from heated vapors.

Acute Effects:

Inhalation: Vapor is irritating to the upper respiratory system and mucous membranes.

Eye: Product can cause severe eye irritation, swelling and/or chemical burn. Contact lenses should not be worn when working with this material.

Skin: Skin contact may result in irritation or chemical burn.

Ingestion: Liquid causes damages to mucous membrane if swallowed.

Medical Conditions Aggravated by Long-Term Exposure: Skin and eye conditions.

Chronic Effects: N/A

Carcinogenicity: IARC, NTP, and OSHA do not list any components as carcinogens.

Section 4 First Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen and/or artificial respiration.

Eye Contact: Flush with plenty of water for 15 minutes and get medical attention.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing and launder before reuse.
Destroy contaminated shoes.

Ingestion: Do not induce vomiting. Get medical attention.

Section 5 Fire Fighting Measures

Flash Point: > 300°F (>149 °C)

Flash Point Method: PMCC

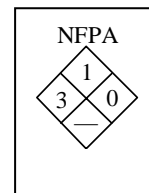
LEL: Not established

UEL: Not established

Extinguishing Media: Foam, water, CO₂, or dry chemical

Fire-Fighting Equipment: Use self-contained breathing apparatus.

Fire and Explosion Hazards: Decomposition and combustion products may be toxic.



Section 6 Accidental Release Measures

Spill /Leak Procedures: Stop spill at source. Dike area and contain. Clean up remainder with absorbent materials such as sand or vermiculite. Mop up and dispose of.

Section 7 Handling and Storage

Handling & Storage: Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin. Wear safety goggles or face shield. Wear gloves, apron and footwear impervious to this material. Wash clothing before reuse. Store at ambient temperatures. . Keep container tightly closed and upright when not in use to prevent leakage.

Section 8 Exposure Controls/Personal Protection

Ventilation: Local exhaust recommended. General mechanical is acceptable. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2).

Respiratory Protection: Use a NIOSH approved respirator when vapor/mist exposure is likely.

Eye Protection: Wear splash-proof chemical goggles.

Skin Protection: Wear impermeable gloves.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 Physical and Chemical Properties

Appearance and Odor: Light Amber, amine odor

Vapor Pressure: < 1 mm Hg @ 70°F

Vapor Density (Air=1): Not determined

VOC Content: 0 lbs/gal

Specific Gravity (H₂O=1, at 4 °C): 1.02

Water Solubility: Slight

Boiling Point: Not determined

% Volatile: Not determined

Evaporation Rate: Not determined

pH: Not determined

Section 10 Stability and Reactivity

Stability: Stable.

Conditions to Avoid: Excessive heat for prolonged period.

Chemical Incompatibilities: Strong oxidizing agents, acids and bases

Hazardous Decomposition Products: Combustion may form toxic materials, such as carbon dioxide, carbon monoxide.

Hazardous Polymerization: Will not occur. Avoid inadvertent mixing with epoxy resins

Section 11 Toxicological Information

Acute Inhalation Exposure Effects: Respiratory irritant.
Skin Irritation: Irritant. LD₅₀ (rabbit) 550-800 mg/kg
Eye Irritation: Severe Irritant.
Sensitization: Possible in susceptible individuals.
Carcinogenicity: IARC, NTP, and OSHA do not list any components as carcinogens.

Section 12 Ecological Information

No Known evidence of adverse effects from available information

Section 13 Disposal Considerations

Disposal: Dispose of in safety containers as a solid water material. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations

Section 14 Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Resin Compounds, N.O. I

Section 15 Regulatory Information

US Federal Regulations:

OSHA (Occupational Safety and Health Act): This Material Safety Data Sheet has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

RCRA (Resource Conservation and Recovery Act): Not a hazardous waste under RCRA (40 CFR 261).

SARA 311/312 Codes:

SARA Toxic Chemical (40 CFR 372.65): This product contains the following toxic chemical subject to the reporting requirements of Section 313 of SARA Title III of 1986 and of 40 CFR 372.

None

TSCA Inventory Status: All ingredients listed on TSCA inventory requirements.

State Regulations:

CA Proposition: No component listed

Triethylenetetramine (CAS # 112-24-3) is listed on the New Jersey and Pennsylvania Right to Know Lists.

Section 16 Other Information

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Material Safety Data Sheet

Mia Hardener 97

Date of Preparation: May 14, 2009

Section 1 Chemical Product and Company Identification

Product/Chemical Name: Mia Hardener 97

Chemical Family: Amine

CAS Number: N/A

Other Designations: N/A

General Use: N/A

Manufacturer: Freeman Manufacturing and Supply Company, 1101 Moore Road, Avon, OH 44011
Phone (440) 934-1902, FAX (440) 934-7200, Hours of Operation 8-5,
Emergency phone number 1-800-424-9300

HMIS	
H	3
F	1
R	0
PPE Sec.8.	

Section 2 Composition/Information on Ingredients

Ingredient Name	CAS Number
Triethylenetetramine (TETA)	112-24-3
TETA Adduct	26970-63-0
Nonyl Phenol	25154-52-3

Ingredient	OSHA		ACGIH	
	PEL	STEL	TLV	STEL
Triethylenetetramine (TETA)	none estab.	none estab.	none estab.	none estab.
TETA Adduct	none estab.	none estab.	none estab.	none estab.
Nonyl Phenol	none estab.	none estab.	none estab.	none estab.

Section 3 Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Severe eye irritation, possible eye burns, skin irritation, skin sensitization

Potential Health Effects

Primary Entry Routes: Skin; Inhalation from heated vapors.

Acute Effects:

Inhalation: Vapor is irritating to the upper respiratory system and mucous membranes.

Eye: Product can cause severe eye irritation, swelling and/or chemical burn. Contact lenses should not be worn when working with this material.

Skin: Skin contact may result in irritation or chemical burn.

Ingestion: Liquid causes damages to mucous membrane if swallowed.

Medical Conditions Aggravated by Long-Term Exposure: Skin and eye conditions.

Chronic Effects: N/A

Carcinogenicity: IARC, NTP, and OSHA do not list any components as carcinogens.

Section 4 First Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen and/or artificial respiration.

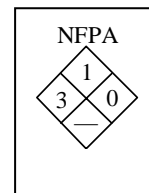
Eye Contact: Flush with plenty of water for 15 minutes and get medical attention.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing and launder before reuse.
Destroy contaminated shoes.

Ingestion: Do not induce vomiting. Get medical attention.

Section 5 Fire Fighting Measures

Flash Point: > 300°F (>149 °C)
Flash Point Method: Open Cup
LEL: Not established
UEL: Not established
Extinguishing Media: Foam, water, CO₂, or dry chemical
Fire-Fighting Equipment: Use self-contained breathing apparatus.
Fire and Explosion Hazards: Decomposition and combustion products may be toxic.



Section 6 Accidental Release Measures

Spill /Leak Procedures: Stop spill at source. Dike area and contain. Clean up remainder with absorbent materials such as sand or vermiculite. Mop up and dispose of.

Section 7 Handling and Storage

Handling & Storage: Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin. Wear safety goggles or face shield. Wear gloves, apron and footwear impervious to this material. Wash clothing before reuse. Store at ambient temperatures. . Keep container tightly closed and upright when not in use to prevent leakage.

Section 8 Exposure Controls/Personal Protection

Ventilation: Local exhaust recommended. General mechanical is acceptable. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2).
Respiratory Protection: Use a NIOSH approved respirator when vapor/mist exposure is likely.
Eye Protection: Wear splash-proof chemical goggles.
Skin Protection: Wear impermeable gloves.
Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 Physical and Chemical Properties

<p>Appearance and Odor: Amber liquid, faint ammonical odor</p> <p>Vapor Pressure: < 1 mm Hg @ 70°F</p> <p>Vapor Density (Air=1): Not determined</p> <p>VOC Content: 104.5 g/L</p> <p>Specific Gravity (H₂O=1, at 4 °C): 1.04±.02</p>	<p>Water Solubility: Slight</p> <p>Boiling Point: Not determined</p> <p>% Volatile: Not determined</p> <p>Evaporation Rate: Not determined</p> <p>pH: Not determined</p>
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Section 10 Stability and Reactivity

Stability: Stable.
Conditions to Avoid: Excessive heat for prolonged period.
Chemical Incompatibilities: Strong oxidizing agents, acids and bases
Hazardous Decomposition Products: Combustion may form toxic materials, such as carbon dioxide, carbon monoxide.
Hazardous Polymerization: Will not occur. Avoid inadvertent mixing with epoxy resins

Section 11 Toxicological Information

Acute Inhalation Exposure Effects: Respiratory irritant.
Skin Irritation: Irritant. LD₅₀ (rabbit) 550-800 mg/kg
Eye Irritation: Severe Irritant.
Sensitization: Possible in susceptible individuals.
Carcinogenicity: IARC, NTP, and OSHA do not list any components as carcinogens.

Section 12 Ecological Information

No Known evidence of adverse effects from available information

Section 13 Disposal Considerations

Disposal: Dispose of in safety containers as a solid water material. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations

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