

### Section 1 Identification

#### Product identifiers

Miapoxy 101 Epoxy Resin

#### Relevant identified uses of the substance or mixture and uses advised against

Resin component of clear epoxy laminating system.

For Industrial/Professional Use Only.

#### Details of the Supplier of the Safety Data Sheet

Freeman Manufacturing & Supply Company  
1101 Moore Road, Avon, OH 44011-4043 USA  
Telephone: +1 (440) 934-1902  
Email: contactus@freemansupply.com

**24 Hour Emergency Telephone Number**  
**CHEMTREC: (800) 424-9300**

### Section 2 Hazards Identification

#### GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2A

Skin Sensitization, Category 1

#### Label elements



Warning

#### Hazard Statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

#### Precautionary Statements

P261 Avoid breathing fumes, vapors, mists or sprays.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves, eye protection and face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P317 If skin irritation or rash occurs: Get medical help.

P337+P317 If eye irritation persists: Get medical help.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents and container in accordance with local, regional, and national regulations.

#### Supplemental Information

This is one part of a two-part system. Read and understand the hazard information on hardener before using.

### Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	70-90
Alkyd Glycidyl Ether.	68609-97-2	10-20

### Section 3 Composition/Information on Ingredients

Ingredients not listed are either not hazardous or are not classified as hazardous, and/or present at amounts below reportable limits.

### Section 4 First-Aid Measures

#### Description of necessary first-aid measures

**Eye Contact:** Rinse thoroughly with water, holding the eyelids open to be sure the material is washed out. Remove contact lenses if safe and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

**Skin Contact:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention develops or persist. Wash contaminated clothing before reuse. Discard clothing that cannot be decontaminated.

**Inhalation:** Remove person to fresh air. Get medical attention if symptoms develop or persist.

**Ingestion:** Do not induce vomiting unless instructed to do so by a medical professional. Get medical attention if you feel unwell.

#### Most important symptoms and effects, acute and delayed

None known.

#### Indication of immediate medical attention and special treatment needed if necessary

Not expected to be requires

### Section 5 Fire-Fighting Measures

#### Extinguishing Media

Use water fog, foam, carbon dioxide or dry chemical. Do not use solid water stream. Solid stream of water into hot product may cause violent steam generation or spread fire.

#### Specific Hazards

Not classified as flammable or combustible. Product will burn under fire conditions. Combustion products include oxides of carbon, phenolics, aldehydes and other toxic organic compounds.

#### Special Protective Equipment & Precautions for Fire-Fighters

Wear positive pressure, self-contained breathing apparatus, and full-body protective clothing.

### Section 6 Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

Clear unnecessary, unprotected personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing vapors.

#### Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

#### Methods and materials for containment and cleaning up

Cover with an inert absorbent material and collect into an appropriate container for disposal.

### Section 7 Handling and Storage

#### Precautions for safe handling

Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Do not eat, drink, or smoke in the work area. Keep container closed when not in use.

#### Safe Storage

Store indoors at temperatures below 120°F (49°C). Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed. Store locked up.

#### Section 8 Exposure Controls/Personal Protection

**Occupational Exposure Limits**

No data available

**Appropriate engineering controls**

Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain air concentrations below occupational exposure standards. When necessary use mechanical handling to reduce human contact with materials.

**Personal Protective Equipment (PPE)**

**Respiratory Protection:** If needed, an approved respirator with organic vapor cartridges may be used. Respirator selection and use should be based on contaminant type, form, and concentration. For higher exposures or in an emergency, use a supplied-air respirator. Use respirators in accordance with OSHA's Respiratory Protection Standard (29 CFR 1910.134).

**Skin Protection:** Wear impervious gloves, such as butyl rubber or nitrile rubber.

**Eye Protection:** Wear chemical safety glasses/goggles.

**Other Protective Measures**

Prevent skin contact and contamination of personal clothing. An eye wash facility and washing facility should be available in the work area. Follow applicable regulations and good Industrial Hygiene practice.

#### Section 9 Physical and Chemical Properties

<b>Appearance</b>	Yellow liquid
<b>Odor</b>	Mild
<b>Odor threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point</b>	No data available
<b>Boiling point</b>	>300°F (>148°C)
<b>Flash point</b>	>350°F (176°C)
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability</b>	No data available
<b>Vapor pressure</b>	0.06 mm Hg at 21°C
<b>Vapor density</b>	No data available
<b>Relative density</b>	1.12 ± 0.05
<b>Water solubility</b>	Nil to slightly soluble
<b>Coefficient: n-octanol/ water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Viscosity</b>	600-800 cP at -25°C
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	No data available
<b>VOC Content</b>	No data available

#### Section 10 Stability and Reactivity

**Reactivity:** Not normally reactive.

**Chemical Stability:** Stable under recommended conditions.

**Possibility of Hazardous Reactions:** Masses of ≥1 lb. (0.5 kg) plus aliphatic amine will cause irreversible polymerization with considerable heat build-up. Material will polymerize with sodium hydroxide.

**Conditions to Avoid:** Avoid excessive heat.

**Incompatible Materials:** Avoid contact with strong acids, bases, oxidizing agents, and amines.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, and oxides of nitrogen.

### Section 11 Toxicological Information

#### Acute Toxicity Values

Not established

#### Acute and Chronic Health Effects

**Eye Contact:** Causes serious eye irritation.

**Skin Contact:** Causes skin irritation. May cause allergic skin reaction.

**Inhalation:** May cause mild respiratory irritation.

**Ingestion:** No data available.

**Respiratory Sensitization:** Components are not classified as respiratory sensitizers.

**Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Components are not classified as mutagens.

**Carcinogenicity:** Components are not classified as carcinogens.

**Reproductive Toxicity:** Components are not classified as reproductive toxins.

**Specific Target Organ Toxicity:** No data available.

### Section 12 Ecological Information

**Ecotoxicity:** No data available. Avoid release into waterways.

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

### Section 13 Disposal Considerations

Dispose according to local, state, and federal regulations. Do not dump in drains or sewers.

### Section 14 Transport Information

#### DOT

UN3082, Environmentally hazardous substance, liquid, n.o.s (epoxy resin), 9, III.

Non-bulk Packaging (<882lb or <119gal) not regulated transport by truck.

#### IATA/IMDG

UN3082, Environmentally hazardous substance, liquid, n.o.s (epoxy resin), 9, III, MARINE POLLUTANT.

Excepted for IATA and IMDG regulations if shipped in quantities of 5L (1.32) gal or less

(See IATA SP A197 and IMDG 2.10.2.7)

### Section 15 Regulatory Information

#### US Federal Regulations

**CERCLA 103 Reportable Quantity:** No components subject to CERCLA reporting requirements. Some states have more stringent reporting requirements.

**SARA TITLE III Section 311/312:** See Section 2

**Section 313 Toxic Chemicals:** This product does not contain chemicals subject to SARA Title III Section 313 Reporting requirements.

**Section 302 Extremely Hazardous Substances (TPQ):** None

**EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on TSCA.

#### US State Regulations

**California Proposition 65:** This product does not contain substances known to the State of California to cause cancer, birth defects, and/or reproductive harm.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Section 16 Other Information**

**Training Advice**

All personnel using/handling this product should be trained in proper chemical handling and the need for and use of engineering controls and protective equipment.

**Disclaimer**

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested 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.

Initial issue date: August 2, 2022

Previous revision date: August 2, 2022

Current revision date: January 15, 2025

**Section 1 Identification**

**Product identifiers**

Mia 195 Epoxy Hardener

**Relevant identified uses of the substance or mixture and uses advised against**

Hardener component of clear epoxy laminating system.

For Industrial/Professional Use Only.

**Details of the Supplier of the Safety Data Sheet**

Freeman Manufacturing & Supply Company  
1101 Moore Road, Avon, OH 44011-4043 USA  
Telephone: +1 (440) 934-1902  
Email: contactus@freemansupply.com

**24 Hour Emergency Telephone Number**  
**CHEMTREC: (800) 424-9300**

**Section 2 Hazards Identification**

**GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)**

Skin Corrosion: Category 1B

Serious Eye Damage: Category 1

Skin sensitization: Category 1

**Label elements**



Danger

**Hazard Statements**

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

**Precautionary Statements**

P260 Do not breathe fumes, vapors, mists or sprays.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P361+P354 IF ON SKIN: Take off immediately all contaminated clothing.

Immediately rinse with water for several minutes.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P316 Get emergency medical help immediately.

P333+P317 If skin irritation or rash occurs: Get medical help.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local, regional, and national regulations.

**Supplemental Information**

This is one part of a two-part system. Read and understand the hazard information on resin before using.

### Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Triethylenetetramine, propoxylated	26950-63-0	80-100

Ingredients not listed are either not hazardous or are not classified as hazardous, and/or present at amounts below reportable limits.

### Section 4 First-Aid Measures

#### Description of necessary first-aid measures

**Eye Contact:** Rinse thoroughly with water, holding the eyelids open to be sure the material is washed out. Remove contact lenses if safe and easy to do. Continue rinsing. Get medical attention immediately.

**Skin Contact:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention immediately. Wash contaminated clothing before reuse. Discard clothing that cannot be decontaminated.

**Inhalation:** Remove person to fresh air. Get medical attention if symptoms develop or persist.

**Ingestion:** Do not induce vomiting unless instructed to do so by a medical professional. Get medical attention if you feel unwell.

#### Most important symptoms and effects, acute and delayed

Causes severe skin burns and eye damage.

#### Indication of immediate medical attention and special treatment needed if necessary

Get immediate medical attention if in eyes or on skin.

### Section 5 Fire-Fighting Measures

#### Extinguishing Media

Use water fog, foam, carbon dioxide or dry chemical. Do not use solid water stream.

Solid stream of water into hot product may cause violent steam generation or spread fire.

#### Specific Hazards

Not classified as flammable or combustible. Product will burn under fire conditions. Combustion products include oxides of carbon, phenolics, aldehydes and other toxic organic compounds.

#### Special Protective Equipment & Precautions for Fire-Fighters

Wear positive pressure, self-contained breathing apparatus, and full-body protective clothing.

### Section 6 Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

Clear unnecessary, unprotected personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing vapors.

#### Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

#### Methods and materials for containment and cleaning up

Cover with an inert absorbent material and collect into an appropriate container for disposal.

### Section 7 Handling and Storage

#### Precautions for safe handling

Use with adequate ventilation. Do not breathe fumes, vapors, mists or sprays. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Do not eat, drink, or smoke in the work area. Keep container closed when not in use.



### Section 7 Handling and Storage

**Safe Storage**

Store indoors at temperatures below 120°F (49°C). Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed. Store locked up.

### Section 8 Exposure Controls/Personal Protection

**Occupational Exposure Limits**

None established

**Appropriate Engineering Controls**

Use with adequate general or local exhaust ventilation to minimize exposure levels.

**Personal Protective Equipment (PPE)**

**Respiratory Protection:** If needed, an approved respirator with organic vapor cartridges may be used. Respirator selection and use should be based on contaminant type, form, and concentration. For higher exposures or in an emergency, use a supplied-air respirator. Use respirators in accordance with OSHA's Respiratory Protection Standard (29 CFR 1910.134).

**Skin Protection:** Wear impervious gloves, such as butyl rubber or nitrile rubber.

**Eye Protection:** Wear chemical safety glasses/goggles.

**Other Protective Measures**

Prevent skin contact and contamination of personal clothing. An eye wash facility and washing facility should be available in the work area. Follow applicable regulations and good Industrial Hygiene practice.

### Section 9 Physical and Chemical Properties

<b>Appearance</b>	Clear, colorless liquid
<b>Odor</b>	Ammonia-like
<b>Odor threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point</b>	No data available
<b>VOC Content</b>	No data available
<b>Initial boiling point</b>	>392°F (>200°C)
<b>Flash point (closed cup)</b>	347°F (175°C)
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability</b>	No data available
<b>Vapor pressure</b>	<1mm Hg at 20°C
<b>Vapor density</b>	No data available
<b>Relative density</b>	1.01 at 25°C
<b>Water solubility</b>	Nil to slightly soluble
<b>Coefficient: n-octanol/ water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Viscosity</b>	290-450 cP at -25°C
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	No data available

### Section 10 Stability and Reactivity

**Reactivity:** Not normally reactive.

**Chemical Stability:** Stable under recommended conditions.



### Section 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** Masses of  $\geq 1$  lb. (0.5 kg) plus aliphatic amine will cause irreversible polymerization with considerable heat build-up. Material will polymerize with sodium hydroxide.

**Conditions to Avoid:** Avoid excessive heat.

**Incompatible Materials:** Avoid contact with strong acids, bases, oxidizing agents, and amines.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, and oxides of nitrogen.

### Section 11 Toxicological Information

#### Acute Toxicity Values

No data available

#### Acute and Chronic Health Effects

**Eye Contact:** Causes serious eye damage.

**Skin Contact:** Causes severe skin burns. May cause allergic skin reaction.

**Inhalation:** May cause mild respiratory irritation.

**Ingestion:** No data available.

**Respiratory Sensitization:** Components are not classified as respiratory sensitizers.

**Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Components are not classified as mutagens.

**Carcinogenicity:** Components are not classified as carcinogens.

**Reproductive Toxicity:** Components are not classified as reproductive toxins.

**Specific Target Organ Toxicity:** No data available.

### Section 12 Ecological Information

**Ecotoxicity:** No data available. Avoid release to the environment.

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

### Section 13 Disposal Considerations

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of contents/ container to an approved waste disposal plant. Do not re-use empty containers.

### Section 14 Transport Information

#### DOT

UN2735, Amines, liquid, corrosive, n.o.s. (triethylenetetramine, triethylenetetramine, propoxylated), 8, II. LTD QTY if shipped in quantities of 1L (0.30gal) or less.

#### IATA/IMDG

UN2735, Amines, liquid, corrosive, n.o.s. (triethylenetetramine, triethylenetetramine, propoxylated), 8, II.

### Section 15 Regulatory Information

#### US Federal Regulations

**CERCLA 103 Reportable Quantity:** No components subject to CERCLA reporting requirements. Some states have more stringent reporting requirements.

**Section 15 Regulatory Information**

**SARA TITLE III Section 311/312:** See Section 2

**Section 313 Toxic Chemicals:** This product does not contain chemicals subject to SARA Title III Section 313 Reporting requirements.

**Section 302 Extremely Hazardous Substances (TPQ):** None

**EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on TSCA.

**US State Regulations**

**California Proposition 65:** This product does not contain substances known to the State of California to cause cancer, birth defects, and/or reproductive harm.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Section 16 Other Information**

**Training Advice**

All personnel using/handling this product should be trained in proper chemical handling and the need for and use of engineering controls and protective equipment.

**Disclaimer**

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested 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.

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