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Miapoxy 101 Epoxy Resin

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Section 1 Id	entification		
Product identifiers			
Miapoxy 101 Epoxy Resin			
Relevant identified uses of the substance or mixture and	uses advised against	t	
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	24 Hour Emerger	ıcy Telephone Number	
Telephone: +1 (440) 934-1902	CHEMTREC: (800) 424-9300	
Email: contactus@freemansupply.com			
Section 2 Hazard	ls 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			
abel 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 allow	ed out of the workpla	ce.	
P280 Wear protective gloves, eye protection and face	e protection.		
P302+P352 IF ON SKIN: Wash with plenty of soap an			
P304+P340 IF INHALED: Remove person to fresh air	and keep comfortable	e for breathing.	
P305+P351+P338 IF IN EYES: Rinse cautiously with	water for several minu	ites.	
Remove contact lenses, if present and easy to do. Cor	ntinue rinsing.		
P333+P317 If skin irritation or rash occurs: Get med	ical help.		
P337+P317 If eye irritation persists: Get medical hel	p.		
P362+P364 Take off contaminated clothing and was	h it before reuse.		
P501 Dispose of contents and container in accordance		and national regulations.	
Supplemental Information	-	-	
This is one part of a two-part system. Read and unde	rstand the hazard info	rmation on hardener before	e using.
Section 3 Composition/In	formation on Ingred	ients	
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	
mityu diyelayi bulet.	00007772	10 20	

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Miapoxy 101 Epoxy Resin

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 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 exites 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 to prevent eye and skin contact and avoid breathing upports. Extromental precautions, protective quipment and emergency procedures Clear unnecessary, unprotected personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing upports. Extromental precautions, protective quipment and emergency procedures Prevent product from entering drains. Prevent further leakage or spillage if safe to do		
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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.	Safe Storage Store indoors at temperatures below 120°F (49°C). Store in original containers. Avoid getting moi	sture into



Miapoxy 101 Epoxy Resin

Section 8 Exposure Controls/Personal Protection	

Occupati	ional Exposure Limits	
-	lo data available	
	iate engineering controls	
		d, when necessary, local exhaust ventilation to draw spray, aerosol,
		orkers to prevent routine inhalation. Ventilation must be adequate to
		occupational exposure standards. When necessary use mechanical
	andling to reduce human contact v	
	l Protective Equipment (PPE)	vitil materials.
		an approved respirator with organic vapor cartridges may be used.
		be based on contaminant type, form, and concentration. For higher
		a supplied-air respirator. Use respirators in accordance with OSHA's
	Respiratory Protection Standard (2	
		gloves, such as butyl rubber or nitrile rubber.
	ye Protection: Wear chemical safe otective Measures	ety glasses/goggles.
		tion of noncourd clathing. An ana much facility and maching facility
		ition of personal clothing. An eye wash facility and washing facility
SI	nould be available in the work area	a. Follow applicable regulations and good Industrial Hygiene practice.
	Sectio	n 9 Physical and Chemical Properties
А	ppearance	Yellow liquid
)dor	Mild
-	dor threshold	No data available
	H	No data available
-	All for the second s	No data available
	Boiling point	>300°F (>148°C)
	lash point	>350°F (176°C)
	vaporation rate	No data available
	lammability (solid, gas)	No data available
	Ipper/lower flammability	No data available
	apor pressure	0.06 mm Hg at 21°C
	apor density	No data available
	Relative density	1.12 ± 0.05
	Vater solubility	Nil to slightly soluble
	coefficient: n-octanol/ water	No data available
	uto-ignition temperature	No data available
	/iscosity	600-800 cP at -25°C
	xplosive properties	No data available
	Dxidizing properties	No data available
	OC Content	No data available
	S	ection 10 Stability and Reactivity
	0	
	Reactivity: Not normally reactive.	
	hemical Stability: Stable under re	
Р		is: Masses of ≥ 1 lb. (0.5 kg) plus aliphatic amine will cause irreversible
		eat build-up. Material will polymerize with sodium hydroxide.
	and the second Arrest arrest	ve heat.
Ċ	onditions to Avoid: Avoid excess	
C Iı	ncompatible Materials: Avoid con	ntact with strong acids, bases, oxidizing agents, and amines. cts: Carbon monoxide, carbon dioxide, and oxides of nitrogen.



Miapoxy 101 Epoxy Resin

Section 11 Toxicological Information

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Acute	Toxicity Values
Acute	Not established
Acute	and Chronic Health Effects
neute	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	
201	UN3082, Environmentally hazardous substance, liquid, n.o.s (epoxy resin), 9, III.
	Non-bulk Packaging (<882lb or <119gal) not regulated transport by truck.
IATA/	
,	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
	Section 15 Regulatory mormation
US Fee	leral 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 Sta	te 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
	ror more mormation go to www.rob warmings.ca.gov



Miapoxy 101 Epoxy Resin

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

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Initial issue date: August 2, 2022 Previous revision date: August 2, 2022 Current revision date: January 15, 2025





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Mia 197 Epoxy Hardener

Section 1 Identification

Section 1 Identification		
 Product identifiers Mia 197 Epoxy Hardener Relevant identified uses of the substance or mixture and Hardener component of clear epoxy laminating syst 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 		
Section 2 Hazar	rds Identification	
 GHS Classification in accordance with 29 CFR 1910.1200 Acute Toxicity (Oral), Category 4 Acute Toxicity (Inhalation), Category 3 Skin Corrosion, Category 1B Serious Eye Damage, Category 1 Skin Sensitizer, Category 1 Toxic to Reproduction, Category 2 Specific Target Organ Toxicity – Single Exposure, Catazardous to the Aquatic Environment – Acute Haz Hazardous to the Aquatic Environment – Acute Haz Hazardous to the Aquatic Environment – Chronic Hatazardous to the Aquatic Environment – Acute Haz Hazardous to the Aquatic Environment – Chronic Hatazardous to the Aquatic Hatazardous to the Aquatic Hatazardous to the Aquatic Hatazardous to the Aquati	ategory 3 zard, Category 2 lazard, Category 2 Example 1 for child. Fe with long lasting effects. To before use.	





Mia 197 Epoxy Hardener

Section 2 Hazards Identification

P273 Avoid release to the environment.			
P280 Wear protective gloves, protective clothing,	eye protection, and fa	ice protection.	
P301+P317 IF SWALLOWED: Get medical help.			
P301+P330+P331 IF SWALLOWED: Rinse mouth.	Do NOT induce vomit	ting.	
P302+P352 IF ON SKIN: Wash with plenty of soap			
P302+P361+P354 IF ON SKIN: Take off immediate		lothing.	
Immediately rinse with water for several minutes.		-	
P304+P340 IF INHALED: Remove person to fresh	air and keep comfort	able for breathing.	
P305+P354+P338 IF IN EYES: Immediately rinse v			
Remove contact lenses, if present and easy to do. (
P316 Get emergency medical help immediately.			
P317 Get medical help.			
P318 IF exposed or concerned, get medical advice			
P319 Get medical help if you feel unwell.			
P330 Rinse mouth.			
P333+P317 If skin irritation or rash occurs: Get m	edical help.		
P362+P364 Take off contaminated clothing and w	ash it before reuse.		
P363 Wash contaminated clothing before reuse.			
P391 Collect spillage.			
P403+P233 Store in a well-ventilated place. Keep	container tightly clos	ed.	
P405 Store locked up.			
P501 Dispose of contents and containers in accord	lance with local, regio	onal and international regul	ations.
Supplemental Information			
This is one part of a two-part system. Read and un	derstand the hazard	information on resin before	e using.
			-
Section 3 Composition/	Information on Ing	redients	
Ingredient Name	CAS Number	Concentration (%)	
Polyethylene-polyamines	68131-73-7	50-70	
4,4'-isopropylidenediphenol	80-05-7	20-40	
Diethylenetriamine	111-40-0	<20	
	•	•	•

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 immediately.

Ingestion: Do not induce vomiting unless instructed to do so by a medical professional. Get medical attention immediately.

Most important symptoms and effects, acute and delayed

Toxic if inhaled and harmful if swallowed and in contact with skin.

Indication of immediate medical attention and special treatment needed if necessary



Mia 197 Epoxy Hardener

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
Persor	nal 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.
Enviro	onmental 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.
Metho	ds 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
Precai	itions 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 St	•
	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
_	
Occup	ational Exposure Limits
	None established
Appro	priate engineering controls
D	Use with adequate general or local exhaust ventilation to minimize exposure levels.
Persor	nal 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 impervious gloves, such as butyl rubber of intrife rubber.
Othor	Protective Measures
ouler	
	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.
	should be available in the work area. Follow applicable regulations and good industrial hygiene practice.



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Appearance	Clear amber liquid		
Odor Odor the shald	Ammonia-like		
Odor threshold	No data available		
рН	No data available		
Melting point	No data available		
VOC Content	No data available		
Initial boiling point	No data available		
Flash point (closed cup)	>212°F (>100°C)		
Evaporation rate	No data available		
Flammability (solid, gas)	No data available		
Upper/lower flammability	No data available		
Vapor pressure	<0.75mm Hg at 20°C		
Vapor density	No data available		
Relative density	1.05		
Water solubility	No data available		
Coefficient: n-octanol/ water	No data available		
Auto-ignition temperature	No data available		
Viscosity	1,650 cP at 25°C		
Explosive properties	No data available		
Oxidizing properties	No data available		
S	ection 10 Stability and Reac	ctivity	
Reactivity: Not normally reactive. Chemical Stability: Stable under re Possibility of Hazardous Reaction polymerization with considerable h Conditions to Avoid: Avoid excess:	ns: Masses of ≥1 lb. (0.5 kg) pl leat build-up. Material will po ive heat.	lymerize with sodium hydroxide.	
Incompatible Materials: Avoid con Hazardous Decomposition Produ			
Hazardous Decomposition Produ		n dioxide, and oxides of nitrogen.	
Hazardous Decomposition Produ	icts: Carbon monoxide, carbo	n dioxide, and oxides of nitrogen.	

Acute and Chronic Health Effects

Eye Contact: Causes serious eye damage.

Skin Contact: Harmful in contact with skin. Causes severe skin burns. May cause allergic skin reaction.

>1,000 mg/kg

(calculated)

0.3 - 4.178 mg/L, 4 hr.

(calculated)

Inhalation: Toxic if inhaled. May cause respiratory irritation.

Ingestion: Harmful if swallowed.

1,080-1,716.2 mg/kg

(calculated)

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: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity: May cause respiratory irritation, drowsiness or dizziness.



Mia 197 Epoxy Hardener

Section 12 Ecological Information

Ecotoxicity: Toxic to aquatic life with long lasting effects. Do not 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

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

IATA/IMDG

UN2735, Amines, liquid, corrosive, n.o.s., (polyethylenepolyamines, diethylenetriamine), 8, II, MARINE POLLUTANT.

Section 15 Regulatory Information

US Federal Regulations

CERCLA 103 Reportable Quantity: This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements.

SARA TITLE III Section 311/312: See Section 2

Section 313 Toxic Chemicals: This product contains chemicals subject to SARA Title III Section 313 reporting requirements: Bisphenol A (CAS 80-05-7) < 40%

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 WARNING: A This product may expose you to chemicals including Bisphenol A (BPA), which is known to the state of California to cause birth defects or other reproductive harm. For more information, visit 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.

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Section 16 Other Information

Date of initial release: September 30, 2022 Date of previous revision: November 26, 2024 Current revision date: January 15, 2025